

LTE / WiMAX

2.3, 2.5, 3.3, 3.5, 3.6 GHz

International Price List

Version 32.0
May 1, 2014



Notes:

- All prices are transfer prices, ex-works Telrad's or its subcontractor's facilities, as shall be designated by Telrad.
- All prices are in USD
- Any change in the prices listed in this Price List becomes effective 30 days after its publication
- Every order must include the Product Name, Part Number (P/N) and Price as listed in this Price List
- For orders of less than \$7000, Telrad reserves the right to charge a handling fee of \$120 per order
- Please note letters suffix on some PN's; make sure to include them where necessary. (Suffix appear either in the PN column or in columns to the right of the Description column).

Index for colors of items in Price list

- Items marked in **RED** : Product availability alert. These are not generally available products. Please consult with your Telrad sales representative prior to ordering.
- Items marked in **BLACK** : Available items

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P/N	Product	Qty	List Price	Description
Base Station				
Base Station - B-MAX Indoor Equipment				
735201	BMAX-BST-SH		\$5,000.00	BreezeMAX Base Station Shelf. Include air ventilation unit (AVU)
735203	BMAX-BST-PSU		\$830.00	BreezeMAX Base Station Power Supply Unit
700204	BMAX-4M-NPU		\$7,640.00	BreezeMAX 4Motion 2.x Network Processor Unit
700203	BMAX-4M-PIU		\$850.00	BreezeMAX Base Station Power Interface Unit. Includes DC power cable. High Power
700201	BMAX-4M-AU-4CH		\$6,350.00	BreezeMAX 4motion 2.X Base Station Access Unit interface module for (4 channels)
735216	BMAX-BST-PWR-FEED		\$1,330.00	Single Power Feeder. Includes one DC power cable and four IF cables length 0.5m. When using the new PIU Card (700203), Required only when deploying 6 sectors with 4th order diversity
735217	BMAX-BST-RM-PWR-FEED and GPS		\$100.00	19" front panel for power feeder & GPS IGA with 2 covers
Base Station - B-MAX Macro Outdoor Equipment				
700233	BMAX-OUTDOOR-NAU		\$15,820.00	BreezeMAX Macro Outdoor Network Access Unit consisting 1 AU + 1 NPU packaged in one enclosure
700234	BMAX-OUTDOOR-SAU		\$10,200.00	BreezeMAX Macro Outdoor Single AU unit consisting 1 AU packaged in one small enclosure. BMAX-OUTDOOR SAU cable (P/N 700237) is included
700235	BMAX-OUTDOOR-DAU		\$19,570.00	BreezeMAX Macro Outdoor Dual AU unit consisting 2 AUs packaged in one enclosure. BMAX-OUTDOOR DAU cable (P/N 700238) is included
700533	BMAX OUTDOOR NAU 2CH		\$10,460.00	BreezeMAX Macro Outdoor Network Access Unit consisting 1 AU 2CH + 1 NPU packaged in one enclosure
700532	BMAX OUTDOOR SAU 2CH		\$6,390.00	BreezeMAX Macro Outdoor Single AU unit consisting 1 AU 2CH packaged in one half size enclosure; BMAX-OUTDOOR SAU cable (P/N 700237) is included
700531	BMAX OUTDOOR DAU 2CH		\$11,790.00	BreezeMAX Macro Outdoor Dual AU unit consisting 2 AUs 2CH packaged in one enclosure; BMAX-OUTDOOR DAU cable (P/N 700238) is included
Base Station - B-MAX Micro Outdoor Equipment				
725122	BMAX OD MICRO 2.5		\$14,250.00	Single sector 2x2 all-outdoor base station in 2.5Ghz (2485Mhz to 2690Mhz), which is comprised of modem and radio components. Mounting kit included
735930	BMAX OD MICRO 3.5		\$14,250.00	Single sector 2x2 all-outdoor base station in 3.5Ghz (3400Mhz to 3600Mhz), which is comprised of modem and radio components. Mounting kit included
935030	GPS Antenna kit		\$690.00	Standard GPS antenna Kit including antenna, 3m cable, pole mount bracket, mounting band and lightning protector (for BTS side) to be ordered ONLY with Micro OD BST
Base Station - B-MAX GPS Equipment				

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P/N	Product	Qty	List Price	Description
723204	BMAX-Timing GPS-OGR		\$1,800.00	Outdoor GPS Receiver for Bmax Base Station.
700200	BMAX-GPS-IGA-CBL		\$80.00	Indoor GPS Adaptor cable. Interfaces between the outdoor GPS cable and an NPU. Required only for BreezeMAX Macro Indoor.
700249	4M Timing GPS-CBL-20		\$140.00	GPS cable connecting the GPS outdoor receiver to the Indoor GPS Adaptor cable (in Macro Indoor BTS) and to NAU (in Macro Outdoor BTS). Cat-5 Cable with special bayonet connector on one side and open end on the other side. Two RJ-45 connectors (one will be used with the cable and a spare one) included. Length: 20m
723205	Timing GPS-CBL-50		\$200.00	GPS cable connecting the GPS outdoor receiver to the Indoor GPS Adaptor cable (in Macro Indoor BTS) and to NAU (in Macro Outdoor BTS). Cat-5 Cable with special bayonet connector on one side and open end on the other side. Two RJ-45 connectors (one will be used with the cable and a spare one) included. Length: 50m
723206	Timing GPS-CBL-100		\$250.00	GPS cable connecting the GPS outdoor receiver to the Indoor GPS Adaptor cable (in Macro Indoor BTS) and to NAU (in Macro Outdoor BTS). Cat-5 Cable with special bayonet connector on one side and open end on the other side. Two RJ-45 connectors (one will be used with the cable and a spare one) included. Length: 100m
700230	4M Timing GPS-CBL-2		\$110.00	GPS Cable, for connecting the GPS outdoor receiver to the NAU. Cat-5 Cable with special bayonet connector on one side and open end on the other side. Two RJ-45 connectors (one will be used with the cable and a spare one) included. Length: 2m to be used with BreezeMAX Macro Outdoor Single sector configuration.
723225	Timing GPS-CH-CBL-2		\$160.00	GPS chain cable for connecting between Micro and/or Macro Base Stations. Length: 2M
700250	BMAX-4M-GPS		\$600.00	Outdoor GPS Receiver for BreezeMAX 4Motion Macro Indoor , Macro Outdoor and Compact Base Station. To be selected only with 4Motion Release 3.0 and higher. Pole mounting kit included.
700272	BMAX-4M-GPS-CBL-20		\$210.00	GPS cable connecting the GPS outdoor receiver to the NPU card in Macro Indoor BTS (no adaptor is required) and to the NAU (in Macro Outdoor BTS). Cat-5 Cable with RJ45 connector on one side and micro D-Type connector on the other side. Length: 20m. Replacing current Timing GPS-CBL-20 (P/N 700249) For Macro Outdoor BTS RJ45 connector needs to be assembled - Please refer to cable crimp procedure in Installation Manual. This cable is operating with BMAX-4M-GPS (700250) only.

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700251	BMAX-4M-GPS-CBL-50		\$290.00	GPS cable connecting the GPS outdoor receiver to the NPU card in Macro Indoor BTS (no adaptor is required) and to the NAU (in Macro Outdoor BTS). Cat-5 Cable with RJ45 connector on one side and micro D-Type connector on the other side. Length: 50m. Replacing current Timing GPS-CBL-50 (P/N 723205); For Macro Outdoor BTS. RJ45 connector needs to be assembled - Please refer to cable crimp procedure in Installation Manual. This cable is operating with BMAX-4M-GPS (700250) only.
700252	BMAX-4M-GPS-CBL-100		\$400.00	GPS cable connecting the GPS outdoor receiver to the NPU card in Macro Indoor BTS (no adaptor is required) and to the NAU (in Macro Outdoor BTS). Cat-5 Cable with RJ45 connector on one side and micro D-Type connector on the other side. Length: 100m. Replacing current Timing GPS-CBL-100 (P/N 723206) For Macro Outdoor BTS RJ45 connector needs to be assembled - Please refer to cable crimp procedure in Installation Manual. This cable is operating with BMAX-4M-GPS (700250) only.
Base Station - B-MAX Macro ODU Equipment				
BST Single Radio Head				
723200	BMAX-BST-AU-ODU-HP-2.3		\$4,000.00	BreezeMAX Base Station High Power Outdoor Radio Unit - for 2,300 -2,360 MHz. Include RF connector for a separate external antenna (antenna not included). Indoor to Outdoor cable (IOC) and Outdoor to Antenna Cable (OAC) <u>to be ordered separately</u>
723226	BMAX-BST-AU-ODU-HP-2.3b		\$4,000.00	BreezeMAX Base Station High Power Outdoor Radio Unit - for 2,340 -2,400 MHz. Include RF connector for a separate external antenna (antenna not included). Indoor to Outdoor cable (IOC) and Outdoor to Antenna Cable (OAC) <u>to be ordered separately</u>
723221	BMAX-BST-AU-ODU-2.3-WCS		\$4,000.00	BreezeMAX Base Station High Power Outdoor Radio Unit, for 2.3Ghz (2305-2317Mhz, 2348-2360Mhz) band - with a special (WCS) internal filter. Include RF connector for a separate external antenna (antenna not included). Indoor to Outdoor cable (IOC) and Outdoor to Antenna Cable (OAC) <u>to be ordered separately</u>
725200	BMAX-BST-AU-ODU-HP-2.5-A		\$4,000.00	BreezeMAX Base Station High Power Outdoor Radio Unit - for 2,496 -2,602 MHz. Include RF connector for a separate external antenna (antenna not included). Indoor to Outdoor cable (IOC) and Outdoor to Antenna Cable (OAC) <u>to be ordered separately</u>

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725201	BMAX-BST-AU-ODU-HP-2.5-B		\$4,000.00	BreezeMAX Base Station High Power Outdoor Radio Unit - for 2,590 -2,690 MHz. Include RF connector for a separate external antenna (antenna not included). Indoor to Outdoor cable (IOC) and Outdoor to Antenna Cable (OAC) to be ordered separately.
733510	BMAX-BST-AU-ODU-HP-TDD-3.3a		\$4,000.00	BreezeMAX Base Station High Power Outdoor Radio Unit - for 3.3GHz band, supporting frequency range 3300 - 3355MHz. Include RF connector for a separate external antenna (antenna not included). Indoor to Outdoor cable (IOC) and Outdoor to Antenna Cable (OAC) to be ordered separately.
733511	BMAX-BST-AU-ODU-HP-TDD-3.3b		\$4,000.00	BreezeMAX Base Station High Power Outdoor Radio Unit - for 3.3GHz band, supporting frequency range 3345 - 3400MHz . With RF connector for a separate external antenna (antenna not included). Indoor to Outdoor cable (IOC) and Outdoor to Antenna Cable (OAC)
735512	BMAX-BST-AU-ODU-HP-TDD-3.4a		\$4,000.00	BreezeMAX Base Station High Power Outdoor Radio Unit - for 3.5GHz band, supporting frequency range 3399.5 - 3455MHz. Include RF connector for a separate external antenna (antenna not included). Indoor to Outdoor cable (IOC) and Outdoor to Antenna Cable (OAC) to be ordered separately.
735513	BMAX-BST-AU-ODU-HP-TDD-3.4b		\$4,000.00	BreezeMAX Base Station High Power Outdoor Radio Unit - for 3.5GHz band, supporting frequency range 3455 - 3500MHz. Include RF connector for a separate external antenna (antenna not included). Indoor to Outdoor cable (IOC) and Outdoor to Antenna Cable (OAC) to be ordered separately.
735510	BMAX-BST-AU-ODU-HP-TDD-3.5a		\$4,000.00	BreezeMAX Base Station High Power Outdoor Radio Unit - for 3.5GHz band, supporting frequency range 3500 - 3555MHz. Include RF connector for a separate external antenna (antenna not included). Indoor to Outdoor cable (IOC) and Outdoor to Antenna Cable (OAC) to be ordered separately.
735511	BMAX-BST-AU-ODU-HP-TDD-3.5b		\$4,000.00	BreezeMAX Base Station High Power Outdoor Radio Unit - for 3.5GHz band, supporting frequency range 3545 - 3600MHz. Include RF connector for a separate external antenna (antenna not included). Indoor to Outdoor cable (IOC) and Outdoor to Antenna Cable (OAC) to be ordered separately.
736510	BMAX-BST-AU-ODU-TDD-3.6b		\$4,000.00	BreezeMAX Base Station Outdoor Radio Unit - for 3.6GHz band, supporting frequency range 3650 - 3700MHz . Radio transmit power is 22dBm MAX. With RF connector for a separate external antenna (antenna not included). Indoor to Outdoor cable (IOC) and Outdoor to Antenna Cable (OAC) to be ordered separately.
BST 2Tx+2Rx Radio Head				
723253	ODU-2300-2400-000N-38-2x2-N-0		\$7,400.00	BreezeMAX Base Station High Power Outdoor Radio Unit - for 2,300 -2,400 MHz for 2Tx+2Rx config. Include RF connector for a separate external antenna (antenna not included). Indoor to Outdoor Cable (IOC) and Outdoor to Antenna Cable (OAC) are to be ordered separately.

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723258	ODU-2305-2360-000N-38-2x2-Y-0		\$7,400.00	BreezeMAX Base Station High Power Outdoor Radio Unit, for 2.3Ghz (2305-2317Mhz, 2348-2360Mhz) band - with a special (WCS) external filter - for 2Tx+2Rx config. With RF connector for a separate external antenna (antenna not included). Indoor to Outdoor Cable (IOC) and Outdoor to Antenna Cable (OAC) are to be ordered separately.
725257	ODU-2485-2690-000N-38-2x2-N-0		\$7,400.00	BreezeMAX Base Station High Power Outdoor Radio Unit - for 2,485 -2,690 MHz for 2Tx+2Rx config. Include RF connector for a separate external antenna (antenna not included). Indoor to Outdoor Cable (IOC) and Outdoor to Antenna Cable (OAC) are to be ordered separately.
735452	ODU-3400-3600-000N-37-2x2-N-0		\$7,400.00	BreezeMAX Base Station High Power Outdoor Radio Unit - for 3,400 -3,600 MHz for 2Tx+2Rx config. Include RF connector for a separate external antenna (antenna not included). Indoor to Outdoor Cable (IOC) and Outdoor to Antenna Cable (OAC) are to be ordered separately.
BST 2Tx+4Rx Radio Head				
725254	ODU-2485-2690-000N-38-4x2-N-0		\$8,500.00	BreezeMAX Base Station High Power Outdoor Radio Unit - for 2,485 -2,690 MHz for 2Tx+4Rx config. Include RF connector for a separate external antenna (antenna not included). Indoor to Outdoor (IOC) cable and Outdoor to Antenna (OAC) cable are to be ordered separately. This P/N will replace current 2x4 ODUs in 2.5Ghz (i.e. P/Ns 725252 and 725253)
735451	ODU-3400-3600-000N-37-4x2-N-0		\$8,500.00	BreezeMAX Base Station High Power Outdoor Radio Unit - for 3,400 -3,600 MHz for 2Tx+4Rx config. Include RF connector for a separate external antenna (antenna not included). Indoor to Outdoor cable (IOC) and Outdoor to Antenna Cable (OAC) to be ordered separately.
736250	ODU-3600-3800-000N-37-4x2-N-0		\$8,500.00	BreezeMAX Base Station High Power Outdoor Radio Unit - for 3,600 -3,800 MHz for 2Tx+4Rx config. Include RF connector for a separate external antenna (antenna not included). Indoor to Outdoor cable (IOC) and Outdoor to Antenna Cable (OAC) to be ordered separately.
RET BTS Antennas				
323000	BS-RET-DP-ANT 2.3-2.7		\$2,325.00	Antenna 2.3 - 2.7GHz, 65° sector, Dual slant (X). Including electrical down tilt (EDT), remote electrical tilt (RET). Provided with Fix Tilt 323105 and Adjustable Tilt 323106
323001	BS-RET-DDP-ANT 2.3-2.7		\$3,155.00	Antenna 2.3 - 2.7GHz, 65° sector, Dual slant (XX). Including electrical down tilt (EDT), remote electrical tilt (RET). Provided with Fix Tilt 323101 and Adjustable Tilt 323102
323100	RET-ANT-CNT-KIT		\$4,070.00	An external kit allowing to control antenna tilt remotely. 1 per site.

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323103	RET-ANT-PNL		\$705.00	RET Antenna Panel, 1 for BS
323104	RET-ANT-SPLT		\$905.00	RET Antenna Splitter (1x4) When using more that 4 Ants, two splitters are needed.
335000	BS-RET-DP-ANT 3.3-3.8		\$2,325.00	Antenna 3.3-3.8, 65° sector, Dual slant (X). Including electrical down tilt (EDT), remote electrical tilt (RET).
335001	BS-RET-DDP-ANT 3.3-3.8		\$3,155.00	Antenna 3.3-3.8, 65° sector, Dual slant (XX). Including electrical down tilt (EDT), remote electrical tilt (RET).
RET BTS Antennas Cables				
700210	RET-AISG-CBL-30		\$540.00	30m Cable which links the splitter to the antenna panel. One per BTS, with 1 male connector other side is connected to the panel or splitter by using kroner.
700211	RET-AISG-CBL-60		\$715.00	60m Cable which links the splitter to the antenna panel. One per BTS, with 1 male connector other side is connected to the panel or splitter by using kroner.
700212	RET-AISG-CBL-80		\$815.00	80m Cable which links the splitter to the antenna panel. One per BTS, with 1 male connector other side is connected to the panel or splitter by using kroner.
700213	RET-AISG-CBL-150		\$955.00	150m Cable which links the splitter to the antenna panel. One per BTS, with 1 male connector other side is connected to the panel or splitter by using kroner.
700214	RET-AISG-CBL-2		\$240.00	2m Cable which links the antenna to the splitter. One per antenna.
700215	RET-AISG-CBL-3		\$265.00	3m Cable which links the antenna to the splitter. One per antenna.
700216	RET-AISG-CBL-5		\$290.00	5m Cable which links the antenna to the splitter. One per antenna.
BST Antennas				
BST Dual Slant (X) Antennas				
300640	ANT.2.3-2.7GHz, DS,65°,16±0.5dBi		\$940.00	Antenna 2.3 - 2.7 GHz, 65° sector Dual polarization, Terminating Connector: N female.
300641	ANT.2.3-2.7GHz, DS,90°,15±0.5dBi		\$940.00	Antenna 2.3 - 2.7 GHz, 90° sector Dual polarization, Terminating Connector: N female.
323112	ANT, BS-EDT-DP 65° 2.3-2.7GHz		\$940.00	Antenna 2.3 - 2.7GHz, 65° sector, Dual slant. Including electrical down tilt (EDT).
300644	ANT,BS, 3.3-3.8GHz,DS,Sec.65°,16.5dBi min.		\$670.00	Antenna 3.3-3.8 GHz, 65° sector Dual polarization, Terminating Connector: N female.
300645	ANT,BS, 3.3-3.8GHz,DS,Sec.90°,15.5dBi min		\$670.00	Antenna 3.3-3.8GHz, 90° sector Dual polarization, Terminating Connector: N female
BST Dual (XX) Slant Antennas				
323108	BS-EDT-DDP-65°-ANT 2.3-2.7GHz		\$1,450.00	Antenna 2.3 - 2.7GHz, 65° sector, Dual slant (XX). Including electrical down tilt (EDT).

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P/N	Product	Qty	List Price	Description
300719	ANT-DDP-90°-3.3-3.8GHz		\$1,040.00	Antenna 3.3-3.8 GHz, 90° sector Dual slant (XX), Terminating Connector: N female.
323109	ANT BS-EDT-DDP-65° 3.3-3.8 GHz		\$1,650.00	Antenna 3.3-3.8 GHz, 65° sector Dual slant (XX), Including electrical down tilt (EDT).
BST Omni Antennas				
300650	ANT. Omni 2.3-2.7GHz		\$720.00	Omni antenna 2.3-2.7 GHz, Terminating connector: N female, Total gain: 9.5 dBi.
300599	ANT. Omni 3.4-3.6GHz		\$720.00	Omni antenna 3.4-3.6 GHz, Terminating connector: N female, Total gain: 10 dBi.
Antenna cables				
835308	OAC LMR-400-1-0.5		\$114.00	Outdoor unit to Antenna Cable. including outdoor units Length: 0.5m. Connectors: N male / N male 90 degree angle. Total loss @ 2.4 / 2.6 / 3.5 / 3.8 GHz: 1dB
835307	OAC LMR-400-1-1		\$137.00	Outdoor unit to Antenna Cable. including outdoor units Length: 1m. Connectors: N male / N male 90 degree angle. Total loss @ 2.4 / 2.6 / 3.5 / 3.8 GHz: 1dB
723218	OAC LMR-400-1-1.5		\$145.00	Outdoor unit to Antenna Cable. including outdoor units Length: 1.5m. Connectors: N male / N male 90 degree angle. Total loss @ 2.4 / 2.6 / 3.5 / 3.8 GHz: 1dB
Indoor - Outdoor cables BST				
735301	IOC LMR195-1-30		\$200.00	Indoor unit to Outdoor unit Cable, for use with BreezeMAX models that include outdoor units Terminating connectors: TNC male / TNC male. Length: 30 m, There will be NO USE of the LMR-195 cable for ODU 2x4 in 3.5GHz frequency band
700219	IOC LMR240-1-40		\$220.00	Indoor unit to Outdoor unit Cable, for use with BreezeMAX models that include High Power Outdoor units; Terminating connectors: TNC male / TNC male. Length: 40 m, In 3.5GHz this cable will replace P/N 735314 'IOC LMR240-1-60
735314	IOC LMR240-1-60		\$300.00	Indoor unit to Outdoor unit Cable, for use with BreezeMAX models that include High Power Outdoor units; Terminating connectors: TNC male / TNC male. Length: 60 m
700218	IOC LMR400-1-100		\$1,195.00	Indoor unit to Outdoor unit Cable, for use with BreezeMAX models that include High Power Outdoor units; Terminating connectors: TNC male / TNC male. Length: 100 m, In 3.5GHz this cable will replace P/N 835306 'IOC LMR400-1-150
835306	IOC LMR400-1-150		\$1,400.00	Indoor unit to Outdoor unit Cable, for use with BreezeMAX models that include High Power Outdoor units; Terminating connectors: TNC male / TNC male. Length: 150 m

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700236	4M IOC LMR195-1-2		\$90.00	Indoor unit to Outdoor unit Cable, for use with BreezeMAX models that include outdoor units; Terminating connectors: TNC male / TNC male. Length: 2m to be used with BreezeMAX Macro Outdoor Single sector configuration
B-MAX Outdoor Cables				
700238	BMAX-OUTDOOR DAU cable		\$40.00	BreezeMAX Macro Outdoor 2m cable (ETH + sync) already included in BreezeMAX Macro Outdoor DAU module (one cable per DAU) - ordered as spare parts
700237	BMAX-OUTDOOR SAU cable		\$40.00	BreezeMAX Macro Outdoor 2m cable (ETH + sync) already included in BreezeMAX Macro Outdoor SAU module (one cable per SAU) - ordered as spare parts
300734	Power Cable 3M		\$55.00	BreezeMAX Macro Outdoor 2m cable for power (terminated with 6 pin connector)
700271	Power Cable DRUM		\$2,500.00	Drum of 250 meter power cable for Macro & Micro Outdoor base station
858592	Drum of Cat-5 cable - 250m		\$370.00	Drum of 250 meter CAT - 5 cable. No connectors are included
Maintenance cabinet for Outdoor BTS				
735603	Basic Cabinet (AC Power/Type 2)		\$7,350.00	16U Outdoor maintenance cabinet for backup & power supply. This product complements Telrad outdoor BTS platforms and is comprised of the following elements: 7U space for backup batteries for up to 4hr, cabinet controller, fan, 2 rectifiers, 4U space for local transport/backhaul equipment. BATTERIES ARE NOT INCLUDED. Please refer to power consumption calculation matrix to accurately define number of rectifiers required.
735613	Basic Cabinet (AC Power /Type 2) + Heater		\$7,850.00	16U Outdoor maintenance cabinet for backup & power supply. This product complements Telrad outdoor BTS platforms and is comprised of the following elements: 7U space for backup batteries for up to 4hr, cabinet controller, fan, 2 rectifiers, 4U space for local transport/backhaul equipment, and heater for areas with temp below 0°C. BATTERIES ARE NOT INCLUDED. Please refer to power consumption calculation matrix to accurately define number of rectifiers required.
735604	Extended Cabinet (AC Power/Type 3)		\$9,500.00	29U Outdoor maintenance cabinet for backup & power supply. This product complements Telrad outdoor BTS platforms and is comprised of the following elements: 14U space for backup batteries for up to 8hr, cabinet controller, fan, 2 rectifiers, 10U space for local transport/backhaul equipment. BATTERIES ARE NOT INCLUDED. Please refer to power consumption calculation matrix to accurately define number of rectifiers required.

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P/N	Product	Qty	List Price	Description
735614	Extended Cabinet (AC Power/Type 3) + Heater		\$10,000.00	29U Outdoor maintenance cabinet for backup & power supply. This product complements Telrad outdoor BTS platforms and is comprised of the following elements: 14U space for backup batteries for up to 8hr, cabinet controller, fan, 2 rectifiers, 10U space for local transport/backhaul equipment and heater for areas with temp below 0°C. BATTERIES ARE NOT INCLUDED. Please refer to power consumption calculation matrix to accurately define number of rectifiers required.
735615	Basic Cabinet for South America		\$7,350.00	16U Outdoor maintenance cabinet for backup & power supply for South America (~208V input, 110v + 110v). This product complements Telrad outdoor BTS platforms and is comprised of the following elements: 7U space for backup batteries for up to 4hr, cabinet controller, fan, 2 rectifiers, 4U space for local transport/backhaul equipment. BATTERIES ARE NOT INCLUDED. Please refer to power consumption calculation matrix to accurately define number of rectifiers required.
735616	Basic Cabinet for South America + Heater		\$7,850.00	16U Outdoor maintenance cabinet for backup & power supply for South America (~208V input, 110v + 110v). This product complements Telrad outdoor BTS platforms and is comprised of the following elements: 7U space for backup batteries for up to 4hr, cabinet controller, fan, 2 rectifiers, 4U space for local transport/backhaul equipment, and heater for areas with temp below 0°C. BATTERIES ARE NOT INCLUDED. Please refer to power consumption calculation matrix to accurately define number of rectifiers required.
735611	Extended Cabinet for South America		\$9,500.00	29U Outdoor maintenance cabinet for backup & power supply for South America (~208V input, 110v + 110v). This product complements Telrad outdoor BTS platforms and is comprised of the following elements: 14U space for backup batteries for up to 8hr, cabinet controller, fan, 2 rectifiers, 10U space for local transport/backhaul equipment. BATTERIES ARE NOT INCLUDED. Please refer to power consumption calculation matrix to accurately define number of rectifiers required.
735617	Extended Cabinet for South America + Heater		\$10,000.00	29U Outdoor maintenance cabinet for backup & power supply for South America (~208V input, 110v + 110v). This product complements Telrad outdoor BTS platforms and is comprised of the following elements: 14U space for backup batteries for up to 8hr, cabinet controller, fan, 2 rectifiers, 10U space for local transport/backhaul equipment, and heater for areas with temp below 0°C. BATTERIES ARE NOT INCLUDED. Please refer to power consumption calculation matrix to accurately define number of rectifiers required.

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P/N	Product	Qty	List Price	Description
735606	Rectifier (Optional/ add-on)		\$660.00	Power supply rectifier unit (800W) to be installed in outdoor cabinets as an optional unit on top of two rectifiers supplied with the Basic/Extended cabinets
735607	Heater for Basic Cabinet (Type2)		\$500.00	Spare part (400W 48V)
735610	Heater for Extended Cabinet (Type3)		\$440.00	Spare part (400W 48V)
735608	Fan for Basic Cabinet (Type 2)		\$420.00	spare part
735609	Fan for Extended Cabinet (Type 3)		\$420.00	spare part
Base Station - B-MAX Shield Equipment				
718000	BMAXShield-Large-A/C		\$23,850.00	Large weatherized outdoor cabinet that is equipped with air-condition unit enabling an outdoor operational environment for 4motion BreezeMAX indoor unit with the capabilities for up to 4 hours batteries backup. Batteries are NOT included
718001	BMAXShield-Large-Fan		\$18,900.00	Large weatherized outdoor cabinet that is equipped with fan unit enabling an outdoor operational environment for 4motion BreezeMAX indoor unit with the capabilities for up to 4 hours batteries backup. Batteries are NOT included
718002	BMAXShield-Medium-A/C		\$22,500.00	Medium weatherized outdoor cabinet that is equipped with air condition unit enabling an outdoor operational environment for 4motion BreezeMAX indoor unit with the capabilities for up to 2 hours batteries backup. Batteries are NOT included
718003	BMAXShield-Medium-Fan		\$18,000.00	Medium weatherized outdoor cabinet that is equipped with fan unit enabling an outdoor operational environment for 4motion BreezeMAX indoor unit with the capabilities for up to 2 hours batteries backup. Batteries are NOT included
718006	BMAXShield-Power Supply (Optional)		\$1,200.00	Power supply unit that is installed within the weatherized outdoor cabinet and responsible to supply electricity power.
718007	BMAXShield-Heather (Optional)		\$865.00	Heating unit that is installed within the weatherized outdoor cabinet and responsible to provide operation temperature range and support for 'cold boot' operation (mainly used in extremely cold countries).
Accessories & Spares				
735202	BMAX-BST-AVU		\$1,500.00	BreezeMAX Base Station Air Ventilation Unit - Ordered as Spare Part
700217	Mounting Kit		\$250.00	Mounting Kit for ODUs/NAU/DAU/SAU including 1xCarriage+ 4xScrews+ 2xOmega brackets – Ordered as Spare Part
935032	Mounting bands (4" to 6" poles)		\$72.00	Mounting bands suitable for 4" to 6" pole diameter to connect the Micro base station to poles larger than 4". Kit includes 4 bands
735317	Mounting Kit for RH 1x1		\$230.00	Mounting Kit for RH 1x1 – Ordered as Spare Part Ordered as Spare Part

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P/N	Product	Qty	List Price	Description
700202	ALR-CBL		\$60.00	BreezeMAX 4Motion 2.x Alarm Cable - Mandatory if alarms needs to be used - 1 per BST
700247	Power cable connector		\$25.00	a 5 units pack of power cable connectors. Ordered as spare part.
700239	Macro Outdoor Serial Cable		\$20.00	Macro Outdoor serial cable for debug. An integral item of each Macro Outdoor NAU unit. Ordered as spare part.
725123	Sun guard kit for ODU external filter		\$60.00	Large size Sun guard kit (to be installed on an ODU with an external filter).
735310	ETSI Bracket		\$60.00	High Density Bracket for ETSI Rack (21") for the Chassis - Mandatory - 1 BST
723217	BMAX-BST DP ANT-DT		\$170.00	Down tilt for BST dual polarization antenna, to be used with the item 735312 only.
323105	FIX-DP-ANT-MOU-KIT		\$140.00	Fixed tilt kit-panel X - Ordered as Spare Part
323106	ADJ-DP-ANT-TIL-KIT		\$180.00	Adjustable down tilt kit-panel X - Ordered as Spare Part
323101	FIX-DDP-ANT-MOU-KIT		\$140.00	Fixed tilt kit-panel XX - Ordered as Spare Part
323102	ADJ-DDP-ANT-TIL-KIT		\$180.00	Adjustable down tilt kit-panel XX - Ordered as Spare Part
700226	ADP-MON-1t3-6t10-55		\$1,960.00	1-3 Monopole Adaptor for 6"-10"; weight 55Kg
700227	ADP-MON-1t3-12t14-60		\$1,840.00	1-3 Monopole Adaptor for 12"-14"; weight 60Kg
700228	ADP-ANG-1t2-60t100-18		\$820.00	1-2 Angular Adaptor for 60-100 mm.; weight 18Kg
Grand Total				

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P/N	Product	Qty	List Price	Description
Base Station				
BreezeCOMPACT 1000				
735270	CMP.XT-BS-3.4-3.7		\$10,350.00	Compact 4x4 all-outdoor base station in 3.4-3.7GHz comprised of modem and radio components. Pole mounting kit included, RJ 45 connectors included , power connector included , gland wrench included.
735272	CMP.XT-BS-3.3-3.5		\$10,350.00	Compact 4x4 all-outdoor base station in 3.3-3.5GHz comprised of modem and radio components. Pole mounting kit included, RJ 45 connectors included , power connector included , gland wrench included .
735273	CMP.XT-BS-3.6-3.8		\$10,350.00	Compact 4x4 all-outdoor base station in 3.6-3.8GHz comprised of modem and radio components. Pole mounting kit included, RJ 45 connectors included , power connector included , gland wrench included .
BreezeCOMPACT1000 Mount + Antenna				
300726	ANT 3.3-3.8GHz,18 dBi, 65deg, 4ports (RF Cables included)		\$1,040.00	BreezeCOMPACT1000 Attached Antenna 4x4 3.3-3.8 GHz, 65° sector Dual slant (XX), RF Cables are included. Bracket NOT included. Need to order mount kit - PN700438 with the Attached antenna
700438	Compact 1000 Attached Ant Mounting Kit		\$300.00	Compact Attached Antenna Mounting Kit. Including combined mounting kit for Compact and attached antenna (PN300726)
300727	GPS Bracket for Attached Ant Mounting		\$150.00	Compact Adaptor bracket for installation of the GPS on Attached Antenna Mounting kit (700438)
700437	BreezeCOMPACT1000 Sun Guard		\$55.00	For BreezeCOMPACT1000 when Compact is operating in high temperatures (above 45 deg) with direct sun radiation. Not need when front mounted attached antenna used.
BreezeCOMPACT2000				
735271	CMP.HP-BS-3.5		\$13,000.00	Compact Hi-Power 2x4 all-outdoor base station in 3.4-3.6GHz comprised of modem and radio components. Pole mounting kit not included , RJ 45 connectors included , power connector included , gland wrench included .
BreezeCOMPACT2000 Mount + Antenna				

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P/N	Product	Qty	List Price	Description
700440	Compact 2000 Attached Ant Mounting Kit		\$400.00	BreezeCOMPACT2000 Attached Antenna Mounting Kit. Including combined mounting kit for Compact2000 and attached antenna & GPS bracket. Use with Antenna PN300736
300736	ANT 3.3-3.8GHz,18 dBi, 65deg, 4ports (RF cables NOT included)		\$1,080.00	BreezeCOMPACT2000 Antenna4x4 3.3-3.8 GHz, 65° sector Dual Slant (XX- 4 ports), Fixed Tilt 0°, RF Cables NOT included , Bracket NOT included, Antenna mount kit not included in this PN. please follow the two options : For Compact2000 Attached Antenna use with PN 700440 For Compact2000 Detached Antenna use with PNs 300742 & 300737
300742	Compact2000 Stand alone Mount Kit		\$120.00	Pole mounting kit for Compact2000
300737	BreezeCOMPACT Antenna Mounting kit for Detached ANT. 4 ports		\$300.00	BreezeCOMPACT2000 Mounting Kit for Detached Antenna PN 300736
BreezeCOMPACT3000				
725270	CMP3000-B41-2496-2690MHz		\$15,000.00	Compact Advanced Hi-Power 4x4 all-outdoor base station in 2.5Ghz (2485Mhz to 2690Mhz), comprised of modem and radio components. Pole mounting kit included , Sun Guard , RJ 45 connectors included , power connector included , gland wrench included
Dual Sector License (BreezeCOMPACT 1000 & 3000)				
715772	Compact SW License for Dual Sector/Carrier		\$5,000.00	SW license for Compact dual sector/ dual carrier, available from Release 5.0 on Compact1000 & Compact3000 , Compact 2000 - not supported in this release. License is applicable for WiMAX and TD-LTE (10MHz + 10MHz)
Compact LTE License				

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P/N	Product	Qty	List Price	Description
715773	LTE COMPACT SW License		\$2,000.00	SW License for Compact LTE 10MHz or 20MHz
715774	LTE SDR COMPACT SW License Upgrade from WiMAX		\$4,000.00	SW License for Compact WiMAX upgrade to LTE 10MHz or 20MHz
4Motion LTE upgrade kit				
735280	4Motion LTE upgrade kit 3 2x2 sectors - 10MHz		\$15,000.00	LTE upgrade Kit targeted for 4Motion Macro existing install base. The Solution supports 3 sectors 2x2 ODUs limited to 10MHz. Including LTE SW license
735281	4Motion LTE upgrade kit 3 4x4 sectors - up to 20MHz		\$22,500.00	LTE upgrade Kit targeted for 4Motion Macro existing install base. The Solution supports 3 sectors 4x4 ODUs 10MHz or 20MHz Including LTE SW license
Base Station - B-MAX GPS Equipment				
700258	BMAX-4M-GPS		\$600.00	Outdoor GPS Receiver for Compact Base Station. Pole mounting kit included. Starting from Compact Release 5.0 - GPS chaining feature supporting 4 Compacts with one GPS receiver
BST Antennas				
BST Antennas 2.5GHz				
300640	ANT.2.3-2.7GHz, DS,65°,16±0.5dBi		\$940.00	Antenna 2.3 - 2.7 GHz, 65° sector Dual polarization, Terminating Connector: N female.
323108	BS-EDT-DDP-65°-ANT 2.3-2.7GHz		\$1,450.00	Antenna 2.3 - 2.7GHz, 65° sector, Dual slant (XX). Including electrical down tilt (EDT).
BST Antennas 3.5GHz				
300644	ANT,BS, 3.3-3.8GHz,DS,Sec.65°,16.5dBi min.		\$670.00	Antenna 3.3-3.8 GHz, 65° sector Dual polarization, Terminating Connector: N female.
300645	ANT,BS, 3.3-3.8GHz,DS,Sec.90°,15.5dBi min		\$670.00	Antenna 3.3-3.8GHz, 90° sector Dual polarization, Terminating Connector: N female

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P/N	Product	Qty	List Price	Description
300719	ANT-DDP-90°-3.3-3.8GHz		\$1,040.00	Antenna 3.3-3.8 GHz, 90° sector Dual slant (XX), Terminating Connector: N female.
Antenna cables				
835308	OAC LMR-400-1-0.5		\$114.00	Outdoor unit to Antenna Cable. including outdoor units Length: 0.5m. Connectors: N male / N male 90 degree angle. Total loss @ 2.4 / 2.6 / 3.5 / 3.8 GHz: 1dB
835307	OAC LMR-400-1-1		\$137.00	Outdoor unit to Antenna Cable. including outdoor units Length: 1m. Connectors: N male / N male 90 degree angle. Total loss @ 2.4 / 2.6 / 3.5 / 3.8 GHz: 1dB
723218	OAC LMR-400-1-1.5		\$145.00	Outdoor unit to Antenna Cable. including outdoor units Length: 1.5m. Connectors: N male / N male 90 degree angle. Total loss @ 2.4 / 2.6 / 3.5 / 3.8 GHz: 1dB
Compact - Accessories & Spares				
300738	Compact Fiber optic cable installation kit		\$170.00	Data1 fiber optics cable installation kit includes Connector, boot, gland, O ring. Refer to installation manual for more details. Order in addition SFP (optical receiver) - PN300728 Fiber cable not supplied by Telrad
300728	Compact SFP (Optical transceiver)		\$150.00	1 optical transceiver for Compact supporting 1000Base-X standard. Should be ordered with each cable
300739	Crimping tool		\$1,550.00	Recommended crimping tool for power cable connector Can be ordered directly from Samtec (CAT-HT-169-1620-11)
300740	Compact Spare Installation kit		\$900.00	This Kit contain spare parts for 10 Compact units – Glands, connectors. Recommended to buy due to lost & brake
935032	Mounting bands (4" to 6" poles)		\$72.00	Mounting bands suitable for 4" to 6", for Compact HP Base Station Unit to connect to poles larger than 4". Kit includes 4 bands
300741	Compact Power Cable 250m Drum 4x16AWB		\$3,200.00	Compact 250 meter power cable drum, 4 Leads 16 AWB
Grand Total				

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P/N	Product	Qty	List Price	Description
CPE's - Subscribers Units				
LTE & WiMAX - BreezeMAX 7000 Series				
Outdoor Dual Mode Subscriber Units				
735060	DM-CPE7000-PRO-1D-2V-3.x		\$330.00	Dual Mode WiMAX/LTE CPE Pro Outdoor Radio Unit, covering Band 42 (3.4-3.6GHz) and Band 43 (3.6 - 3.8 GHz), 1 Data + 2 Voice with integrated Antenna. Indoor power supply is included. Indoor to Outdoor cable (CBL-BB) to be ordered separately. Package includes EU & US plug IP67 (High End Industrial grade): -40~55 C degree. Not including SIM card
725060	DM-CPE7000-PRO-1D-2V-2.x		\$330.00	Dual Mode WiMAX/LTE CPE Pro Outdoor Radio Unit, covering both Band 40 (2.3-2.4GHz) and Band 41 (2.496 - 2.690 GHz), 1 Data + 2 Voice with integrated Antenna. Indoor power supply is included. Indoor to Outdoor cable (CBL-BB) to be ordered separately. Package includes EU & US plug IP67 (High End Industrial grade): -40~55 C degree. Not including SIM card
735070	DM-CPE7001-PRO-1D-WiFi-3.5		\$230.00	Dual Mode WiMAX/LTE CPE Pro Outdoor Radio Unit with integrated Antenna, Band 42 (3.4 - 3.6 GHz), 1 Data + external indoor Wi-Fi, Indoor power supply is included. Indoor to Outdoor cable (CBL-BB) to be ordered separately. Package includes EU & US plug. IP54 (rain proof design): -20~55 C degree. Not including SIM card
736070	DM-CPE7001-PRO-1D-WiFi-3.6		\$230.00	Dual Mode WiMAX/LTE CPE Pro Outdoor Radio Unit with integrated Antenna, Band 42 (3.6 - 3.8 GHz), 1 Data + external indoor Wi-Fi, Indoor power supply is included. Indoor to Outdoor cable (CBL-BB) to be ordered separately. Package includes EU & US plug. IP54 (rain proof design): -20~55 C degree. Not including SIM card

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P/N	Product	Qty	List Price	Description
725070	DM-CPE7001-PRO-1D-WiFi-2.5		\$230.00	Dual Mode WiMAX/LTE CPE Pro Outdoor Radio Unit with integrated Antenna, Band 42 (2.496 - 2.690 GHz), 1 Data + external indoor Wi-Fi, Indoor power supply is included. Indoor to Outdoor cable (CBL-BB) to be ordered separately. Package includes EU & US plug. IP54 (rain proof design): -20~55 C degree. Not including SIM card
WIFI unit for CPE7000 Dual Mode				
700261	DM-CPE7000-Indoor-Wi-Fi-AP		\$56.00	CPE7000 Outdoor External WiFi unit. This Wi-Fi AP is operating at 2.4 GHz and support IEEE 802.11 b/g/n 2x2 MIMO including Two RJ45 Ethernet LAN ports External power supply (in addition to CPE power supply)
Indoor Dual Mode Subscriber Units				
735050	DM-CPE7000-Si-2D-1V-WiFi-3.5		\$260.00	Dual Mode WiMAX/LTE CPE Indoor Unit, Band 42 (3.4 - 3.6 GHz), 2 Data + 1 Voice with integrated Antenna. Power supply is included. Package includes EU & US plug. Not including SIM card
736050	DM-CPE7000-Si-2D-1V-WiFi-3.6		\$260.00	Dual Mode WiMAX/LTE CPE Indoor Unit, Band 43 (3.6 - 3.8 GHz), 2 Data + 1 Voice with integrated Antenna. Power supply is included. Package includes EU & US plug. Not including SIM card
725050	DM-CPE7000-Si-2D-1V-WiFi-2.5		\$260.00	Dual Mode WiMAX/LTE CPE Indoor Unit, Band 41 (2.496 - 2.690 GHz), 2 Data + 1 Voice with integrated Antenna. Power supply is included. Package includes EU & US plug. Not including SIM card
Telrad SIM Card (for CPE7000)				

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P/N	Product	Qty	List Price	Description
SM2000	LTE SIM card batch (500 pcs)		\$5,000.00	<p>Package of 500 SIM card units (Minimum order/shipment quantity) This is the unique Telrad's LTE SIM solution for BWA customers using CPE7000 family. SIM Card is personalized with the common Telrad profile (no customer-specific personalization/ provisioning, SDK and further card personalization) and is suitable to support LTE ONLY.</p> <p>UICC HW specially ruggedized for industrial applications - extended data retention (10y/ 85 °C), extended endurance, extended temperature resistance range (-40 °C / +105 °C).</p> <p>Telrad is ready to assist the BWA customers with this solution.</p>
BreezeMAX 6000 Series				
Outdoor Subscriber Units				
735000	4M-CPE6000-PRO-1D-1V-3.x		\$260.00	4Motion CPE Pro Outdoor Radio Unit, 3.3 - 3.7 GHz, 1 Data + 1 Voice with integrated Antenna. Indoor power supply is included. Indoor to Outdoor cable (CBL-BB) to be ordered separately. Package includes EU & US plug
BreezeMAX 3000 Series				
Outdoor Subscriber Units				
725702xx	4M-K2-CPE-PRO-ODU-1D-2.5		\$260.00	4Motion CPE Pro Outdoor Radio Unit, 2.5-2.7 GHz, with integrated Antenna. Indoor power supply is included. Indoor to Outdoor cable (CBL-BB) to be ordered separately. (xx legend: EU=European, US=United States)
BreezeMAX 4000 Series				
Indoor Self Install Subscriber Units				
725802xx	4M-CPE4000-Si-1D-1V-2.5		\$155.00	Indoor, 1Data/1Voice, 2.5-2.7G. (xx legend: EU=European, US=United States)
725804xx	4M-CPE4000-Si-2D-2V-WiFi-2.5		\$190.00	"Premium" Indoor CPE based on BreezMAX4000 series 2Data/2Voice/Wi-Fi, 2.5G. (xx legend: EU=European)

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P/N	Product	Qty	List Price	Description
735241xx	4M-CPE4000-Si-1D-1V-3.5		\$155.00	Indoor, 1Data/1Voice, 3.3-3.6G. (xx legend: EU=European, US=United States). The product is not FCC certified
735242xx	4M-CPE4000-Si-1D-1V-WiFi-3.5		\$169.00	Indoor, 1Data/1Voice/Wi-Fi, 3.3-3.6G. (xx legend: EU=European, US=United States). The product is not FCC certified
Grand Total				

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P/N	Product	Qty	List Price	Description
Mini Centralized ASN-GW				
700246	BMAX-ASN-MC		\$5,000.00	BreezeMAX ASNGW - Mini-Centralized configuration. Includes single Activation License for serving 500 subscribers (700320) The single HW entity is scalable up to 3K subscribers or 200 Mbps throughput. May be used in "cluster" configuration - to extend capacity/ throughput.
ASN-GW SW License				
700320	ASN-GW Mini license - 500 subs (1-30 chunks)		\$4,250.00	BreezeMAX ASNGW Single Activation License for serving chunks of 500 subscribers - up to 6 licenses on a single distinctive ASNGW, Each Active ASNGW can serve subscribers from any site. This PN is suitable for ordering quantity of 1 up to 30.
700321	ASN-GW Mini license - 500 subs (31-60 chunks)		\$3,110.00	BreezeMAX ASNGW Single Activation License for serving chunks of 500 subscribers - up to 6 licenses on a single distinctive ASNGW, Each Active ASNGW can serve subscribers from any site. This PN is suitable for ordering quantity of 31 up to 60.
700322	ASN-GW Mini license - 500 subs (61-120 chunks)		\$2,040.00	BreezeMAX ASNGW Single Activation License for serving chunks of 500 subscribers - up to 6 licenses on a single distinctive ASNGW, Each Active ASNGW can serve subscribers from any site. This PN is suitable for ordering quantity of 61 up to 120.
700323	ASN-GW Mini license - 500 subs (121-300 chunks)		\$1,530.00	BreezeMAX ASNGW Single Activation License for serving chunks of 500 subscribers - up to 6 licenses on a single distinctive ASNGW, Each Active ASNGW can serve subscribers from any site. This PN is suitable for ordering quantity of 121 up to 300.
700324	ASN-GW Mini license - 500 subs (301-600 chunks)		\$1,360.00	BreezeMAX ASNGW Single Activation License for serving chunks of 500 subscribers - up to 6 licenses on a single distinctive ASNGW, Each Active ASNGW can serve subscribers from any site. This PN is suitable for ordering quantity of 301 up to 600.
700325	ASN-GW Mini license - 500 subs (601-3000 chunks)		\$1,240.00	BreezeMAX ASNGW Single Activation License for serving chunks of 500 subscribers - up to 6 licenses on a single distinctive ASNGW, Each Active ASNGW can serve subscribers from any site. This PN is suitable for ordering quantity of 601 up to 3000.
Mini Centralized EPC				
700280	EPC-MC		\$39,000.00	Stand-alone EPC HW - Mini-Centralized configuration, capable to support up to 10K subscribers and 2 Gbps data throughput on a single HW entity. May be used in "cluster" configuration - to extend capacity/ throughput. Includes license for 1000 subscribers

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P/N	Product	Qty	List Price	Description
EPC SW license				
715603	EPC license - 500 subs (1-20 chunks)		\$19,500.00	EPC Single Activation License for serving chunks of 500 subscribers. Embedded EPC configuration allows 1 such a license per Compact BS HW. MC-EPC configuration (stand-alone HW) enables up to 20 licenses in total on a single distinctive EPC entity (up to 18 additional licenses). This PN is suitable for ordering quantities of 1 up to 20 licenses.
715604	EPC license - 500 subs (21-100 chunks)		\$11,700.00	EPC Single Activation License for serving chunks of 500 subscribers. Embedded EPC configuration allows 1 such a license per Compact BS HW. MC-EPC configuration (stand-alone HW) enables up to 20 licenses in total on a single distinctive EPC entity (up to 18 additional licenses). This PN is suitable for ordering quantities of 21 up to 100 licenses.
715605	EPC license - 500 subs (above 101 chunks)		\$6,500.00	EPC Single Activation License for serving chunks of 500 subscribers. Embedded EPC configuration allows 1 such a license per Compact BS HW. MC-EPC configuration (stand-alone HW) enables up to 20 licenses in total on a single distinctive EPC entity (up to 18 additional licenses). This PN is suitable for license ordering quantities, starting from 101.
Embedded EPC (eEPC)				
715606	Embedded EPC (eEPC) license - 50 subs		\$1,950.00	Embedded EPC (eEPC) Single Activation License for serving chunks of 50 subscribers. eEPC configuration allows application of up to 10 such licenses per eEPC entity (i.e. up to 500 active subscribers in total).
Grand Total				

AAA - Aradial



ARD WiMAX AAA

Product Name	Sub Product Code	Product Description	Total Price in USD (\$)
Core Components			
Aradial WiMAX AAA	AAA-ARD-B-500u-M	500 subscriber License	\$14,112
	AAA-ARD-B-1K-M	1000 subscriber License	\$17,920
	AAA-ARD-B-2K5-M	2.5K subscriber License	\$27,608
	AAA-ARD-B-5K-M	5K subscriber License	\$38,976
	AAA-ARD-B-10K-M	10K subscriber License	\$57,165
	AAA-ARD-B-25K-M	25K subscriber License	\$116,928
	AAA-ARD-B-50K-M	50K subscriber License	\$181,888
Aradial AAA trial license	AAA-ARD-B-Trial	Trial License (limited for 30 days), 100 subscribers, up to 10 concurrent sessions, non-commercial use. Should be ordered as a part of trial.	FOC
ARD WiMAX AAA LAB license	AAA-ARD-LAB-M	Lab license limited to 100 subscribers, non-commercial use. May be ordered only as an addition to another AAA package.	\$6,496
AAA redundancy (optional)	AAA-ARD-RDN	Redundancy option	50% of Total license and Software Price. Applied also on extensions

Important Notes for AAA-ARD-B:

- * No Prepaid/ billing options are included in this package.
- * Integration with external BSS is possible and requires separate pricing of Professional Services. Refer Pre-sale/ PLM for the price proposal.
- * Basic non-redundant stand-alone AAA configuration mandatory requires the corresponding Professional Services package - PN 301297
- * Redundant AAA configuration mandatory requires the corresponding Professional Services package - PN 301298.

ARD WiMAX AAA & Enforcer (quota mgmt)

Product Name	Sub Product Code	Product Description	Total Price in USD (\$)
Core Components			
Aradial WiMAX AAA & Enforcer (Quota enforcement)	ENF-ARD-500u-M	500 subscriber License	\$17,920
	ENF-ARD-1K-M	1000 subscriber License	\$23,520
	ENF-ARD-2K5-M	2.5K subscriber License	\$37,677
	ENF-ARD-5K-M	5K subscriber License	\$51,968
	ENF-ARD-10K-M	10K subscriber License	\$76,653
	ENF-ARD-25K-M	25K subscriber License	\$155,774
	ENF-ARD-50K-M	50K subscriber License	\$240,352
Spotngo Voucher and Payment module (optional)	SPNG-ARD-FOR-ENF-M	Web Portal for Prepaid service operation. One-time fee.	\$10,394
Enforcer Trial license	ENF-ARD-Trial	Trial License (limited for 30 days), 100 subscribers, up to 10 concurrent sessions, non-commercial use. Should be ordered as a part of trial.	FOC
Enforcer/ Spotngo LAB license (optional)	ENF-ARD-LAB-M	Lab license limited to 100 subscribers, non-commercial use. May be ordered only as an addition to another AAA package.	\$6,496
AAA redundancy (optional)	AAA-ENF-RDN	Redundancy option	50% of Total license and Software Price. Applied also on extensions.

Important Notes for ENF-ARD:

- * Basic non-redundant AAA/ Enforcer configuration mandatory requires the corresponding Professional Services package - PN 301297
- * Redundant AAA/ Enforcer configuration mandatory requires the corresponding Professional Services package - PN 301298.
- * Non-redundant Enforcer + Spotngo configuration mandatory requires the corresponding Professional Services package - PN 301299

ARD General Notes:

- All Prices are in USD(\$).
- The above mentioned prices have the subscriber based price model
- Discounts are not applicable on these prices.
- Taxes are not included in the pricing
- Subscriber license is incremental - i.e. it is possible to add licenses when grow (pay-as-you-grow). Incremental purchase is per a block of users according to
- AAA I&C Professional Services are Mandatory.
- Additional Prof. Services must be included if project requires AAA integration with external sub-systems (Billing, CRM, Management, etc.). The requirements
- Projects that require Billing System capabilities may propose Aradial Converged Billing (ARCB) solution. In this case, proposal is managed directly by ARD
- Trial license is inclusive: Free of Charge, limited for 90 days + extension option for additional 90 days
- AAA Redundancy requires additional HW and OS/ DB licenses - additionally 2 HW machines + corresponding OSs and mandatory MS SQL licenses for 2
- HW and additional SW requirements see aside:

12 HW and additional SW requirements:

- It is possible to use IBM, Dell, Sun (AMD) or HP Dual HW:
 - Up to 5K subscribers - use configuration of ARD AAA application and DB on the same machine:
 - Server DL380 or Dell410
 - 1xCPU - Xeon® X5670 and above
 - 8GB memory
 - 500GB disk or RAID with 500GB
 - Redundant Power Supply
 - Windows 2008 Web (or 2012)
 - IIS installed
 - MS SQL Express - free of charge license (up to 5K subscribers ONLY, not applicable for Redundant configuration) or MS SQL Server 2008 R2 Standard (otherwise).
 - Configuration (2) may be extended up to 10-20K subscribers with the following changes:
 - CPU - Xeon® E5-2650 or similar
 - MS SQL Server 2008 R2 Standard
- 20-100K subscribers - use configuration of ARD AAA application and DB on the same machine:
 - 1 x Server DL380 or Dell 410
 - 2 x CPU - Xeon® E5-2650 or similar
 - 12GB memory
 - 500GB internal disk
 - External storage or RAID for the database depending on the operator traffic
 - Redundant Power Supply
 - Microsoft Windows 2008 Web or standard
 - IIS installed
 - MS SQL Server 2008 R2 Standard
- Above 100K subscribers (up to 1M) - use separate machines for ARD AAA application and DB. The requirements:
 - Aradial AAA application server (without database):
 - >>> 1 x Server DL380 or Dell 410
 - >>> 2 CPU - Xeon® E5-2650 or similar
 - >>> 8GB memory
 - >>> 500GB disk or RAID with 500GB
 - >>> Microsoft Windows 2008 Web or standard
 - >>> IIS installed
 - DataBase server :
 - >>> 1 x Server DL380 or Dell 410
 - >>> 2 CPU - Xeon® E5-2650 or similar
 - >>> 12GB memory
 - >>> 500GB internal disk
 - >>> External storage or RAID for the database depending on the operator traffic
 - >>> Microsoft Windows 2008 Web or standard
 - >>> Microsoft SQL Server 2008 R2 Standard
- Redundancy configuration - replicate HW/SW + additional HW machine (to be used as an arbiter for "witness" configuration). Note that MS SQL Express is not applicable for Redundant configuration. Use MS SQL 2008 R2.

Radius AAA for LTE / EPC

Product Name	Sub Product Code	Product Description	Total Price in USD (\$)
Core Components			
LTE/ EPC AAA	AAA-LTE-500u-M	500 subscriber License	\$21,168
	AAA-LTE-1K-M	1000 subscriber License	\$26,880
	AAA-LTE-2K5-M	2.5K subscriber License	\$41,412
	AAA-LTE-5K-M	5K subscriber License	\$58,464
	AAA-LTE-10K-M	10K subscriber License	\$85,747
	AAA-LTE-25K-M	25K subscriber License	\$175,392
	AAA-LTE-50K-M	50K subscriber License	\$272,832
LTE/ EPC AAA upgrade from WiMAX AAA (SW license)	AAA-LTE-UPGRD-500u-M	500 subscriber License (upgrade)	\$7,056
	AAA-LTE-UPGRD-1K-M	1000 subscriber License (upgrade)	\$8,960
	AAA-LTE-UPGRD-2K5-M	2.5K subscriber License (upgrade)	\$13,804
	AAA-LTE-UPGRD-5K-M	5K subscriber License (upgrade)	\$19,488
	AAA-LTE-UPGRD-10K-M	10K subscriber License (upgrade)	\$28,582
	AAA-LTE-UPGRD-25K-M	25K subscriber License (upgrade)	\$58,464
	AAA-LTE-UPGRD-50K-M	50K subscriber License (upgrade)	\$90,944
LTE/ EPC AAA trial license	AAA-LTE-Trial	Trial License (limited for 30 days), 100 subscribers, up to 10 concurrent sessions, non-commercial use. Should be ordered as a part of a trial.	
LTE/ EPC AAA LAB license	AAA-LTE-LAB-M	Lab license limited to 100 subscribers, non-commercial use. May be ordered only as an addition to another AAA package.	\$9,744
AAA redundancy (optional)	AAA-LTE-RDN	Redundancy option	50% of Total license and Software Price. Applied also on extensions

Important Notes for AAA-ARD-B:

- * No Prepaid/ billing options are included in this package.
- * Integration with external BSS is possible and requires separate pricing of Professional Services. Refer Pre-sale/ PLM for the price proposal.
- * Basic non-redundant stand-alone AAA configuration mandatory requires the corresponding Professional Services package - PN 301297
- * Redundant AAA configuration mandatory requires the corresponding Professional Services package - TBD
- * AAA upgrade process from WiMAX package to LTE/ EPC package mandatory requires the corresponding Professional Services package - TBD

Diameter HSS for LTE/ EPC (S6a)

Product Name	Sub Product Code	Product Description	Total Price in USD (\$)
Core Components			
Diameter HSS for LTE/ EPC	HSS-1K-M	1000 subscriber License	\$50,400
	HSS-5K-M	5K subscriber License	\$100,800
	HSS-10K-M	10K subscriber License	\$140,000
Diameter HSS trial license	HSS-Trial-M	Trial License (limited for 30 days), 100 subscribers, up to 10 concurrent sessions, non-commercial use. Should be ordered as a part of a trial.	
Diameter HSS LAB license	HSS-LAB-M	Lab license limited to 100 subscribers, non-commercial use. May be ordered only as an addition to another AAA package.	TBD
Diameter HSS/ AAA redundancy (optional)	HSS-RDN	Redundancy option	TBD

*** Important note: If required quote for Elitcore AAA, please contact your Telrad sales representative

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P/N	Product	Qty	List Price	Description
STAR Management Suite - Management S/W				
StarManager Start-up Kit				
715600	StarManager Start-up Kit		\$8,000.00	StarManager Server SW License. Does not include HW server. 1- StarManager Server Software License 2- Including license for 2 StarManager Clients 3- Including license for managed BTS's up to 5 4Motion BTS's OR up to 15 Compact \ Micro BTS's 4- Including license for ASN-GW / EPC ** No option to add licenses for more BTS's. Beyond that number it is required to purchase STAR Suite KIT
StarCRAFT				
715767	StarCRAFT		\$1,500.00	StarCRAFT Graphical LCT for single Field Technician license use. StarCRAFT manages single BST.
STAR Suite KIT				

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P/N	Product	Qty	List Price	Description
715601	StarSuite Kit - Integral Network management solution		\$50,000.00	<p>StarSuite Kit - Integral Network management solution Does not include HW server.</p> <p>StarManager:</p> <ul style="list-style-type: none"> 1- StarManager Server Software License 2- Including license for 10 StarManager client 3- Including license for Bing MAP's functionality 4- Including license for Inventory Reports 5- Including license for Email Notifications 6- Including license for SNMP Northbound Interface for alarm forwarding to higher level OSS systems 7- Including license for Offline Configuration Tool <p>StarQuality:</p> <ul style="list-style-type: none"> 1- StarQuality Server Software License 2- OracleXE 11GByte <p>Managed BTS's in both StarManager and StarQuality</p> <ul style="list-style-type: none"> 1- Including license for managed BTS's up to 10 4Motion BTS's OR up to 30 Compact or Micro BTS's 2 - including required licenses for ASN-GW / EPC
712200	Management fee per 4M Macro BST		\$1,600.00	Management fee per 4Motion Macro Indoor or Outdoor BST above 10 4Motion Macro, license for both AlvariSTAR and StarQuality

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P/N	Product	Qty	List Price	Description
712222	Management fee per Compact & Micro BST		\$800.00	Management license Fee per Compact or Micro BTS above 30 Compacts or 30 Micro Units, license for both AlvariSTAR and StarQuality
Upgrade to STAR Suite KIT				
715602	Upgrade to STAR Suite KIT		\$20,000.00	Upgrade existing network to a full StarSuite Kit - This PN is fitting for networks without StarQuality. Different upgrades shall be examined case by case
Upgrade to Oracle Standard Edition				
715708	Upgrade STAR DB to Oracle Standard edition		\$16,000.00	Upgrade STAR database to a larger capacity database -Oracle Standard edition is relevant to StarQuality and StarACS, to be ordered separately for StarQuality and for StarACS.
StarACS (CPE Manager)				
715753	StarACS Server SW License (Limited to 250 CPEs)		\$12,000.00	StarACS Server SW License for a basic and limited system. including License for 1 Admin users including License for 250 CPEs that is managed via the StarACS including installation NO option to grow with number of managed CPE's, no upgrade is available to this package
715710	StarACS Server SW License		\$10,000.00	StarACS Server SW License. Including ACS server SW license including License for 5 Admin users including Web Services NBI for Service Activation including installation MySQL Database
715711	StarACS Management fee per TR-69-based CPE		\$16.00	Management license Fee per single CPE that is managed via the StarACS For existing customers ONLY (with ACS version 3.x installation)

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P/N	Product	Qty	List Price	Description
715754	StarACS Management fee per 1K TR-69-based CPEs		\$16,000.00	Management license Fee per package of 1,000 CPE's that are managed via the StarACS For new customers ONLY (ACS version 4.x and up)
Resilience				
712240	StarManager High-Availability solution, StarManager HA Server SW license		\$60,000.00	StarManager High-Availability Hot redundancy solution is based on Sun Clustering software for smooth and fast recovery. Includes StarManager Server SW license for the Secondary server and licenses
715741	StarQuality High-Availability solution, HA Server SW license		\$60,000.00	StarQuality High-Availability. Includes StarQuality Server SW license for the Secondary server and licenses for BST (included in StarSuite kit). Not including: HW (Standby Servers and External Disk Storage) and Sun Cluster Agent
715760	StarACS High-Availability solution, HA Server SW license		\$60,000.00	StarACS High-Availability Includes StarACS Server SW license for the Secondary server and CPE licenses. Not including: any HW for the solution nor Sun Cluster Agent. Does not include Oracle DB.
Grand Total				

P/N	Product Name	Repair Price	Description
718000	BMAXShield-Large-A/C	\$7,155.00	Large weatherized outdoor cabinet that is equipped with air-condition unit enabling an outdoor operational environment for 4motion BreezeMAX indoor unit with the capabilities for up to 4 hours batteries backup.
718001	BMAXShield-Large-Fan	\$5,670.00	Large weatherized outdoor cabinet that is equipped with fan unit enabling an outdoor operational environment for 4motion BreezeMAX indoor unit with the capabilities for up to 4 hours batteries backup.
718002	BMAXShield-Medium-A/C	\$6,750.00	Medium weatherized outdoor cabinet that is equipped with air condition unit enabling an outdoor operational environment for 4motion BreezeMAX indoor unit with the capabilities for up to 2 hours batteries backup.
718003	BMAXShield-Medium-Fan	\$5,400.00	Medium weatherized outdoor cabinet that is equipped with fan unit enabling an outdoor operational environment for 4motion BreezeMAX indoor unit with the capabilities for up to 2 hours batteries backup.
718004	BMAXShield-Small-A/C	\$6,480.00	Small weatherized outdoor cabinet that is equipped with air condition unit enabling an outdoor operational environment for 4motion BreezeMAX indoor unit without the capabilities for batteries backup.
718005	BMAXShield-Small-Fan	\$4,995.00	Small weatherized outdoor cabinet that is equipped with fan unit enabling an outdoor operational environment for 4motion BreezeMAX indoor unit without the capabilities for batteries backup.
718006	BMAXShield-Power Supply	\$356.40	Power supply unit that is installed within the weatherized outdoor cabinet and responsible to supply electricity power.
718007	BMAXShield-Heather	\$259.20	Heating unit that is installed within the weatherized outdoor cabinet and responsible to provide operation temperature range and support for 'cold boot' operation (mainly used in extremely cold countries)
Maintenance cabinet for Telrad Outdoor BTS			
735603	Basic Cabinet (AC Power/Type 2)	\$1,984.50	16U Outdoor maintenance cabinet for backup & power supply. This product complements Telrad outdoor BTS platforms and is comprised of the following elements: 7U space for backup batteries for up to 4hr, cabinet controller, fan, 2 rectifiers, 4U space for local transport/backhaul equipment. BATTERIES ARE NOT INCLUDED. Please refer to power consumption calculation matrix to accurately define number of rectifiers required.
735613	Basic Cabinet (AC Power /Type 2) + Heater	\$2,119.50	16U Outdoor maintenance cabinet for backup & power supply. This product complements Telrad outdoor BTS platforms and is comprised of the following elements: 7U space for backup batteries for up to 4hr, cabinet controller, fan, 2 rectifiers, 4U space for local transport/backhaul equipment, and heater for areas with temp below 0°C. BATTERIES ARE NOT INCLUDED. Please refer to power consumption calculation matrix to accurately define number of rectifiers required.
735604	Extended Cabinet (AC Power/Type 3)	\$2,389.50	29U Outdoor maintenance cabinet for backup & power supply. This product complements Telrad outdoor BTS platforms and is comprised of the following elements: 14U space for backup batteries for up to 8hr, cabinet controller, fan, 2 rectifiers, 10U space for local transport/backhaul equipment. BATTERIES ARE NOT INCLUDED. Please refer to power consumption calculation matrix to accurately define number of rectifiers required.
735614	Extended Cabinet (AC Power/Type 3) + Heater	\$2,673.00	29U Outdoor maintenance cabinet for backup & power supply. This product complements Telrad outdoor BTS platforms and is comprised of the following elements: 14U space for backup batteries for up to 8hr, cabinet controller, fan, 2 rectifiers, 10U space for local transport/backhaul equipment and heater for areas with temp below 0°C. BATTERIES ARE NOT INCLUDED. Please refer to power consumption calculation matrix to accurately define number of rectifiers required.

P/N	Product Name	Repair Price	Description
735615	Basic Cabinet for South America	\$1,984.50	16U Outdoor maintenance cabinet for backup & power supply for South America (~208V input, 110v + 110v). This product complements Telrad outdoor BTS platforms and is comprised of the following elements: 7U space for backup batteries for up to 4hr, cabinet controller, fan, 2 rectifiers, 4U space for local transport/backhaul equipment. BATTERIES ARE NOT INCLUDED. Please refer to power consumption calculation matrix to accurately define number of rectifiers required.
735616	Basic Cabinet for South America + Heater	\$2,119.50	16U Outdoor maintenance cabinet for backup & power supply for South America (~208V input, 110v + 110v). This product complements Telrad outdoor BTS platforms and is comprised of the following elements: 7U space for backup batteries for up to 4hr, cabinet controller, fan, 2 rectifiers, 4U space for local transport/backhaul equipment, and heater for areas with temp below 0°C. BATTERIES ARE NOT INCLUDED. Please refer to power consumption calculation matrix to accurately define number of rectifiers required.
735611	Extended Cabinet for South America	\$2,389.50	29U Outdoor maintenance cabinet for backup & power supply for South America (~208V input, 110v + 110v). This product complements Telrad outdoor BTS platforms and is comprised of the following elements: 14U space for backup batteries for up to 8hr, cabinet controller, fan, 2 rectifiers, 10U space for local transport/backhaul equipment. BATTERIES ARE NOT INCLUDED. Please refer to power consumption calculation matrix to accurately define number of rectifiers required.
735617	Extended Cabinet for South America + Heater	\$2,673.00	29U Outdoor maintenance cabinet for backup & power supply for South America (~208V input, 110v + 110v). This product complements Telrad outdoor BTS platforms and is comprised of the following elements: 14U space for backup batteries for up to 8hr, cabinet controller, fan, 2 rectifiers, 10U space for local transport/backhaul equipment, and heater for areas with temp below 0°C. BATTERIES ARE NOT INCLUDED. Please refer to power consumption calculation matrix to accurately define number of rectifiers required.
735606	Rectifier (Optional/ add-on)	\$178.20	Power supply rectifier unit (800W) to be installed in outdoor cabinets as an optional unit on top of two rectifiers supplied with the Basic/Extended cabinets
735607	Heater for Basic Cabinet (Type2)	\$135.00	Spare part (400W 48V)
735610	Heater for Extended Cabinet (Type3)	\$118.80	Spare part (400W 48V)
735608	Fan for Basic Cabinet (Type 2)	\$113.40	spare part
735609	Fan for Extended Cabinet (Type 3)	\$113.40	spare part
CPE's - Subscribers Units			
BreezeMAX CPE 2000 Series			
	Indoor Self Install Subscriber Units		
723901	4M-CPE-Si-1D-2.3-Omni	\$108.75	4Motion Si indoor CPE, 2.3 GHz, Omni Antenna, with one 10/100 Base-T Port. Cable to Mains plug is included.
723911	4M-CPE-Si-1D2V-2.3-Omni	\$120.35	4Motion Si indoor CPE, 2.3 GHz, Omni Antenna, with one 10/100 Base-T Port and two VoIP ports. Cable to Mains plug is included.
723921	4M-CPE-Si-4D2V-WiFi-2.3-Omni	\$130.50	4Motion Si indoor CPE, 2.3 GHz, Omni Antenna, with four 10/100 Base-T Port, two VoIP ports and 802.11b/g WiFi access point. Cable to Mains plug is included.

P/N	Product Name	Repair Price	Description
725901	4M-CPE-Si-1D-2.5-Omni	\$108.75	4Motion Si indoor CPE, 2.5 GHz, Omni Antenna, with one 10/100 Base-T Port. Cable to Mains plug is included.
725911	4M-CPE-Si-1D2V-2.5-Omni	\$120.35	4Motion Si indoor CPE, 2.5 GHz, Omni Antenna, with one 10/100 Base-T Port and two VoIP ports. Cable to Mains plug is included. (xx legend: EU=European, UK=United Kingdom, US=United States, AU=Australian)