StarPlus 5300

300 Mbps MIMO Outdoor Base Radio



OVERVIEW

The StarPlus 5300 is a high capacity base radio system that offers a competitive alternative to leased lines, wired and optical systems. StarPlus 5300 uses advanced OFDM and MIMO technologies to deliver breakthrough performance in the unlicensed band.

The StarPlus 5300 radio is ready to handle the extreme backhaul loads that originate from today's data-heavy 4G/LTE based networks.

With the application of a multiple association license key, the StarPlus 5300 can operate in multipoint mode and communicate with StarPlus CPEs. The flexible StarPlus 5300 is the ideal wireless platform to meet the needs of today's bandwith hungry users.

StarPlus can operate in a legacy mode which is backwards compatible with LibraPlus 5860 series CPEs.

The StarPlus 5300 base radio is packaged in a rugged enclosure which is suitable for all weather conditions. The all-metal enclosure provides high EMI immunity for stable operation in interference prone environments.

TRUSTLINK ADVANTAGE

TrustLink™ technology ensures equitable distribution of traffic to all subscriber stations and uses intelligence to determine the number of polling cycles every user gets depending on the level of its activity. This way the network resources are not wasted during the polling of inactive users due to no user data transmission. TrustLink can be employed in both point-to-point and point-to-multipoint networks and dramatically reduces the effects of unwanted interference on the wireless link.

PRODUCT FEATURES

- Point-to-Point and Point-to Multipoint Topologies
- 5.x GHz extended frequency range from 4.920 to 6.100 GHz
- +29 dBm aggregate output power
- 2 x 2 MIMO with software key
- 4G/LTE Backhaul Ready
- · Long Range Broadband Capability
- 40 & 20 MHz Channel Sizes
- 5 & 10 MHz Narrow Bandwidth Channel Sizes
- NLOS Urban Coverage with OFDM Technology
- EION TrustLink™ Technology
- User Friendly Web-Based GUI
- SNMP v2c and Enterprise MIB for Advanced Network Management
- High Spectral Efficiency and Robust RF Network Performance
- Rugged Construction for All Weather Conditions
- Built-in Lightning, Power Surge POE Protection, High EMI Immunity

Product Name	Product Description	Product Code
StarPlus 5300-58	5 GHz StarPlus Radio, OFDM 2x N-Type Connector	5300-58-00-00
StarPlus Multiple Association License Key	StarPlus Multiple Association License Key - Upgrade StarPlus 5300 to allow multiple associations	7300-58-00-10
StarPlus MIMO Upgrade Key	StarPlus Upgrade Speed Key to Two Streams - Upgrade StarPlus 5300 base radio to two streams MIMO	9530-00-00-10





STARPLUS 5300

StarPlus 5300-58						
Point-to-Point (Default)						
2 × 2 MIMO (Requires Upgrade Key)						
4.920 to 6.100 GHz						
Quarter: 5 MHz; Half:	10 MHz; Normal: 20 MHz; Tu	ırbo: 40 MHz				
5 MHz × channel numl	ber for CF					
MCS 0 to 15 (6.5 to 3	00 Mbps); BPSK, QPSK, 16-0	AM and 64-QAM for Libra	Plus mode (6Mbps - 54Mbps	s)		
2 × N-type female						
+29 dBm aggregate; 2	× 26 dBm per stream (config	jurable from 9 dBm up to li	cense key limit in 1 dB steps	3)		
	Modulation	5 MHz	10 MHz	20 MHz	40 MHz	
					-92 dBm -90 dBm	
					-90 dBm	
MCS3/11	16-QAM1/2	-95 dBm	-92 dBm	-89 dBm	-84 dBm	
MCS4/12	16-QAM2/3	-91 dBm	-88 dBm	-85 dBm	-81 dBm	
					-77 dBm -76 dBm	
MCS7/15	64-QAM5/6	-81 dBm	-78 dBm	-75 dBm	-74 dBm	
TDD, Half-Duplex						
Dynamic Frequency Selection (DFS)						
6.5 bits per Hertz						
Proprietary MAC, Trus	tLink™					
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		: fl				
	,	ice nows				
irvo pass inrough ena	Died					
Yes						
Yes						
Username and Password						
WEP (64, 128, 154), W	/PA1 (TKIP), WPA2 (CCMP - A	AES 128, CBC-MAC for hea	iders)			
Web-GUI, SNMP v2c (Set, Get and Traps with prop	orietary MIB)				
Static IP						
RSSI Indicator in GUI, Wireless Link Monitoring, Audible Antenna Alignment Beeper, Built-in Spectrum Analyzer						
Save Radio Configuration to local PC						
Over the Air, local, Web-based upgrade, Dual bank to allow rollback						
Single management view of all deployed products in EION Constellation centralized management system						
mental						
< 10 W						
100-240V, 50/60 Hz Af	C with 48V PoE 802.3af; DC	power option available				
Operating: -30° C to +	70° C					
	<u> </u>					
• • • • • • • • • • • • • • • • • • • •	NEMA 4x: IP67					
-	in, ii or					
1 / II KN						
2.0 kg	5 mm					
230 mm × 230 mm × 6 FCC, IC, WPC, RoHS at						
	Point-to Multipoint Act 1 × 1 SISO (Default) 2 × 2 MIMO (Requires 4.920 to 6.100 GHz Quarter: 5 MHz; Half: 5 MHz × channel numl MCS 0 to 15 (6.5 to 3 2 × N-type female +29 dBm aggregate; 2 MCS0/8 MCS1/9 MCS2/10 MCS3/11 MCS4/12 MCS5/13 MCS4/12 MCS5/13 MCS6/14 MCS7/15 TDD, Half-Duplex Dynamic Frequency Se 6.5 bits per Hertz Proprietary MAC, Trus MDI-X RJ45 10/100/1 Transparent Bridging, Advanced QoS with m Yes Yes, configurable blac Data Tagging/Untaggi Yes Manual UL/DL capacit IPv6 pass through ena Yes Yes Yes Indicator in GUI, Save Radio Configurat Over the Air, local, We Single management vimental V100-240V, 50/60 Hz Al Operating: -30° C to + Operating: -30° C to + Operating: -30° C to + Operating: 0 to 100%, Yes, 2-Axis pole/wall	Point-to Multipoint Access Point (Requires Upgrad 1 × 1 SISO (Default) 2 × 2 MIMO (Requires Upgrade Key) 4.920 to 6.100 GHz Quarter: 5 MHz; Half: 10 MHz; Normal: 20 MHz; Tu 5 MHz × channel number for CF MCS 0 to 15 (6.5 to 300 Mbps); BPSK, QPSK, 16-C 2 × N-type female +29 dBm aggregate; 2 × 26 dBm per stream (config	Point-to Multipoint Access Point (Requires Upgrade Key) 1 × 1 SISD (Default) 2 × 2 MIMO (Requires Upgrade Key) 4.920 to 6.100 GHz Quarter: 5 MHz; Half: 10 MHz; Normal: 20 MHz; Turbo: 40 MHz 5 MHz x channel number for CF MCS 0 to 15 (6.5 to 300 Mbps); BPSK, QPSK, 16-QAM and 64-QAM for Libra 2 × N-type female +29 dBm aggregate; 2 × 26 dBm per stream (configurable from 9 dBm up to li MCS0/8 BPSK -101 dBm MCS1/9 OPSK1/2 -99 dBm MCS2/10 OPSK3/4 -96 dBm MCS2/10 OPSK3/4 -96 dBm MCS3/11 16-QAM1/2 -95 dBm MCS3/11 16-QAM1/2 -95 dBm MCS5/13 64-QAM2/3 -91 dBm MCS5/13 64-QAM2/3 -91 dBm MCS5/15 64-QAM5/6 -91 dBm MCS7/15 64-QAM5/6 -91 dBm MCS7/	Point-to Multipoint Access Point (Requires Upgrade Key) 1 × T SISO (Default) 2 × 2 MIMO (Requires Upgrade Key) 4 920 to 6 100 GHz 0 uarter: 5 MHz; Half: 10 MHz; Normal: 20 MHz; Turbo: 40 MHz 5 MHz × channel number for CF MCS D to 15 (6.5 to 300 Mbps): BPSK, QPSK, 16-QAM and 64-QAM for LibraPlus mode (6Mbps - 54Mbps - 54	Points Multipoint Access Point (Requires Upgrade Key) 1 x 1 SISO (Partall) 2 x 2 MIMO (Returites Upgrade Key) 4 x80 to 6 100 GHz Quarter 5 MHz; Halt 10 MHz; Normal: 20 MHz; Turbo: 40 MHz 5 MHz x channel number for CF MCS 0 to 15 to 15 to 300 Mbps); BPSK, QPSK, 16-QAM and 64-QAM for LibraPlus mode (8Mbps - 54Mbps) 2 x N-type female 1 x90 gBm aggregate; 2 x 26 dBm per stream (configurable from 9 dBm up to license key limit in 1 dB steps) 1 x McSu/6 BPSK. 1 to 1 dBm ye 98 dB	

[†] Maximum power output is set by country specific licensing key. The operator of this product must ensure compliance when selecting external antennas with the limits specified by local regulation prior to deployment.

* Frequency bands that are available to the operator are determined by country specific licensing key.

