

Main Features

- Support 2x2 MIMO for band 1/3 and 4x4 MIMO for n78
- Support 3G, 4G and 5G technologies
- Suitable for large-scale indoor installations / Neutral Host / Multi-Operator applications
- Hybrid DC/Fiber Feed for plug and play installation
- Features remote-control and monitoring



Electrical Specifications

		Uplink	Downlink
Frequency	Band 1 (2x2 MIMO)	1920 - 1980 MHz	2110 - 2170 MHz
	Band 3 (2x2 MIMO)	1710 - 1785 MHz	1805 - 1880 MHz
	n78 (4x4 MIMO)	3400 - 3800 MHz	3400 - 3800 MHz
Instantaneous bandwidth	n78	400 MHz	400 MHz
Gain	Band 1/3	31 ± 2 dB	31 ± 2 dB
	n78	34 ± 2 dB	34 ± 2 dB
RF output power	Band 1/3	---	24 ± 1 dBm (RF per port per band)
	n78	---	27 ± 1 dBm (RF per port per band)
Antenna gain		3 dBi @ 1.7-2.7GHz	3 dBi @ 1.7-2.7GHz
		5 dBi @ 3.3-3.8GHz	5 dBi @ 3.3-3.8GHz
Ripple in band (1x RU: NEU: MU)		± 3 dB	± 3 dB
Optical output power		5 ± 2 dBm	---
Optical wavelength		1310 nm	1550 nm
Gain control range		15 dB / 1 dB step	15 dB / 1 dB step
ALC control		10 dB overdrive protection	10 dB overdrive protection
EVM (256 QAM)		≤ 3%	≤ 3%
Intermodulation & Spurious Emission Mask		Meets 3GPP TS 25.106 for UMTS, 3GPP TS 36.106 for LTE	
Spurious emissions (Out of band)		≤ -36 dBm/9KHz ~ 1GHz	≤ -36 dBm/9KHz ~ 1GHz
		≤ -30 dBm/1GHz ~ 12.75GHz	≤ -30 dBm/1GHz ~ 12.75GHz
System noise figure (1x RU: NEU: MU)		≤ 8 dB	---
Transmission delay		≤ 1 μS	≤ 1 μS
Max. non-destructive input power		-10 dBm	---
Impedance		50 Ω	50 Ω

Environmental Specifications

Operating temperature range	-10 °C to +45 °C
Storage temperature range	-40°C to +85°C
Relative humidity	10% - 95%
Ingress protection	IP50
Monitoring and control	Remote control via IM2U/PBMU

Mechanical Specifications

Optical connector	4 x SC/APC (4x4 MIMO port)
Installation	Ceiling, wall or pole mounted
Antenna	Omni antenna Integrated

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