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Technologies Group

FiberHome **FIBERHOME TECHNOLOGIES GROUP**
WUHAN HONGXIN TELECOMMUNICATION TECHNOLOGIES CO., LTD

Add: No1, 2nd Tanhu Road, Canglongdao
Development Zone, Jiangxia District,
Wuhan, Hubei, P.R.China
P.C.: 430205

Tel: +86-27-87691459
Fax: +86-27-87694427
Http://www.wri.com.cn
Http://www.hxct.com

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Wireless Product Catalogue

WUHAN HONGXIN TELECOMMUNICATION TECHNOLOGIES CO., LTD



Optical Fiber Distribution System (M3)

Characteristics

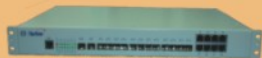
- Support DCS&WCDMA<E Multiple-system and Broadband Transparent transmission
- Support Optical Fiber transmission media
- Support POE/Photoelectric composite cable/Local AC power supply
- Applicable to a variety of scenes
- Low output (23/27dBm) with low interference to BTS
- Long transmission distance
- Rapid implementation and efficient maintenance system

TYPE 2G+3G+4G

MU UNIT



EU UNIT

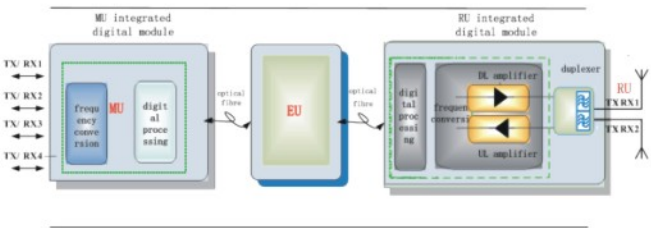


RU UNIT



Product Description

M3 is especially tailored to provide a comprehensive and flexible coverage solution in complex coverage environments like densely populated residential area, underground areas, tunnels, stations and terminals, hotels, meeting rooms... widely used on the mobile communication networks. The 1800M band can support DCS/LTE, and the 2100M band supports WCDMA/LTE. The repeater receives filters, amplifies, and transfers the uplink and downlink radio frequency (RF) signals of the base transceiver station (BTS) to extend and accurately distribute the coverage of the BTS.



Specifications

4G Part

Remote Unit		
	Uplink	Downlink
Frequency Range	1760~1780MHz, 1750~1760MHz (P), 1920~1945MHz (P)	1855~1875MHz, 1845~1855MHz (P), 2110~2135MHz (P)
Output Power	-10±3dBm	27±3dBm (RF)
Max Gain	38±2dB	33±2dB
Gain adjustment range	≥20dB	
Gain adjustment step	≤1dB	
VSWR	≤1.5	
System Group Delay	≤10 us	
UL Noise Figure	(1MU+1EU+1RU) ≤7dB	/
EVM	16QPAM≤8% 64QAM≤8%	
Frequency Error	≤0.05ppm	

2G Part

Remote Unit		
	Uplink :	Downlink :
Frequency Range	1735~1755MHz, 890~915MHz (P), 1725~1750MHz (P)	1830~1850MHz, 935~960MHz (P), 1820~1845MHz (P),
Output Power	-10±3dBm	27±3dBm
Max Gain	38±3dB	38±3dB/33±3dB(LTE)
Gain adjustment range	≥15dB	
Gain adjustment step	≤1dB	
Gain adjustment error	0~10dB, ≤±1dB 10~20dB, ≤±1dB >20dB, ≤±1dB	
VSWR	≤1.8	
EVM	≤6%(RMS)	
System Group Delay	≤22 us	
UL Noise Figure	(1MU+1EU+1RU) ≤7dB	/
Frequency Error	≤0.05ppm	

3G Part

Remote Unit		
	Uplink	Downlink
Frequency Range	1940~1970MHz, 1945~1955MHz (P),	2130~2160MHz, 2135~2145MHz (P),
Output Power	-10±3 dBm	27±3dBm (RF)
Max Gain	38±3dB	38±3dB/33±3dB(LTE)
Gain adjustment range	≥15dB	
Gain adjustment step	≤1dB	
VSWR	≤1.8	
System Group Delay	≤15 us	
UL Noise Figure	(1MU+1EU+1RU) ≤7dB	/
EVM	≤12.5% RMS	
Frequency Error	≤±0.01ppm	

Common Part

Optical Wavelength	1310nm / 1550nm WDM (2G & 3G & 4G, UL & DL all in one fiber)		
Fiber Type	Single mode(GB652)		
Fiber Length	≥10 Km		
RF Connector	N-female 50 ohm		
Optical Connector	LC		
Ingress Protection	MU:IP30	EU:IP30	RU:IP65
Power Plug Type	Optional		
Power Unit	MU: AC220V & DC-48V EU: AC220V & DC-48V RU: POE/Photoelectric composite cable/Local AC {220V(176V~264V),50Hz(45Hz~65Hz)} /{-48 VDC (-38.4V~-57.6V) }		
Local Monitoring	RS-232, UDP Ethernet		
Remote Monitoring	via 2G&3G wireless modem via TCP/IP via E1		
Weight	MU:≤3.5KG	EU:≤3KG	RU:≤5KG
Operating Temperature	MU:-5℃~45℃	EU: -5℃~45℃	RU: -40℃~55℃
Dimensions (H * W * D)	MU: 478mm*360mm*44mm/480mm*260mm*44mm(LTE) EU: 482mm*300mm*44mm/480mm*260mm*44mm(LTE) RU: 324mm*284mm*73.5mm/324mm*284mm*88mm(LTE) RU: 248mm*222mm*37.5mm		
Power Consumption	MU:≤45W EU:≤40W RU(27dBm):≤70W		
MTBF	>100,000hours		