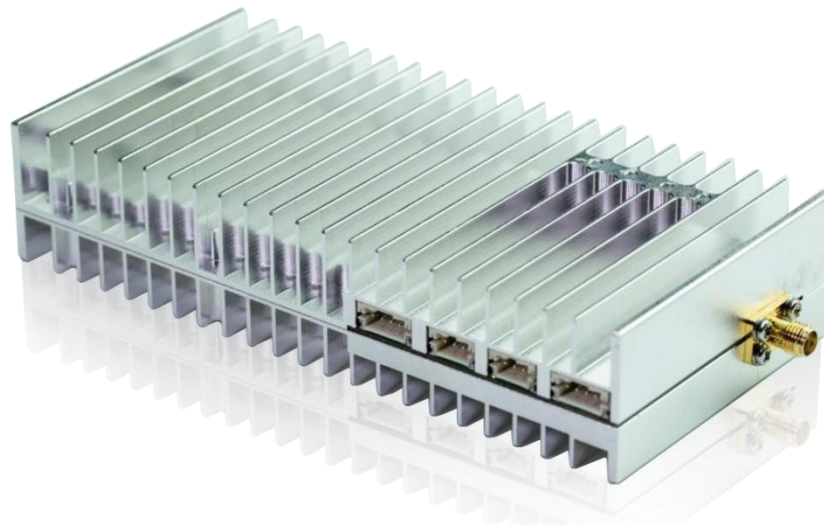


FD-615MT

10Watts 2*2 MIMO Broadband IP MESH Link



FD-615MT build a no center, self-forming, self-adapting and self-healing dynamic routing/ automatic relay communication mesh network. It achieves dynamic routing, multihop relay HD video, multi-channel data and fidelity voice between different nodes of the same network in complex applications, such as fast movement and non-line-of-sight environmental distance.

Smart antenna MIMO and self-forming packet wireless mesh network AD-HOC/MESH, which make FD-615MT provide real-time HD video and broadband Ethernet connection with 30Mbps transmission rate and distance of 100km-150km(air to ground) and 3-10km(nlos ground to ground). It Is special for wireless communication in critical private networks.

KEY BENEFITS

- Bandwidth 1.4Mhz/3Mhz/5Mhz/10Mhz/20Mhz
- Transmitting Power: 40dBm
- Support 800Mhz/1.4Ghz frequency options
- Air to ground 100km-150km range
- NLOS 3km-10km ground to ground distance
- Automatic power control
- Automatic frequency point control
- Ethernet communication via PH2.0 interface
- TTL communication via PH2.0 interface

Application

- MESH long-distance communication
- Power and hydrological line patrol monitoring
- Emergency communications for fire fighting, border defense, and military
- Maritime communications
- Digital oilfield
- Fleet formation

GENERAL		MECHANICAL	
TECHNOLOGY	MESH based on TD-LTE Technology Standard	TEMPERATURE	-20° to +55°C
ENCRYPTION	ZUC/SNOW3G/AES(128/256) Optional Layer-2 Encryption		
DATA RATE	30Mbps(Uplink+downlink)	DIMENSIONS	160.4*68*30mm
SENSITIVITY	10MHz/-103dBm	WEIGHT	280g
RANGE	100km-150km(Air to ground) NLSO 3km-10km(Ground to ground) (depends on the actual environment)	MATERIAL	Silver Anodized Aluminum
NODE	32 nodes	MOUNTING	Vehicle-mounted/Onboard
MODULATION	QPSK, 16QAM, 64QAM		
MIMO	2x2 MIMO	POWER	
Anti-jamming	Automatically frequency hopping		
RF POWER	10watts	VOLTAGE	DC 24V ± 10%
LATENCY	One Hop Transmission ≤ 30ms	POWER CONSUMPTION	30watts
FREQUENCY		INTERFACES	
1.4Ghz	1427.9-1447.9MHz	RF	2 x SMA
800Mhz	806-826 MHz	ETHERNET	1xPH2.0
Note: The frequency band supports customized		PWER INPUT	1 x DC Input
		TTL Data	1xPH2.0
		Debug	1xPH2.0

COMUART

Electrical Level	3.3V and compatible with 2.85V
Control Data	TTL
Baud rate	115200bps
Transmission Mode	Pass-through mode
Priority Level	Higher priority than the network port When the signal transmission is crowded, the control data will be transmitted in priority

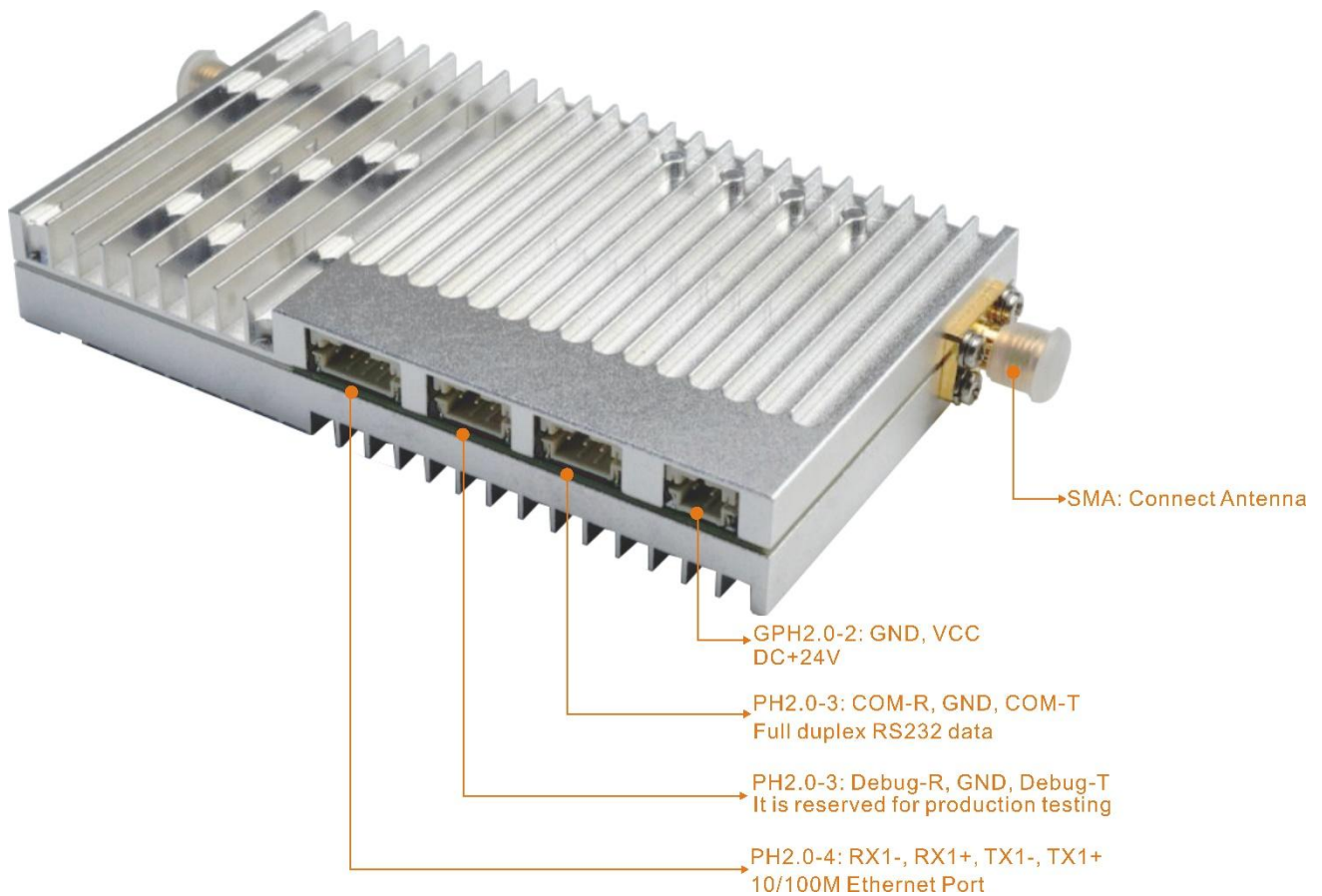
Note:

1. The data transmitting and receiving is broadcast in the network. After successful networking, each FD-615MT node can receive serial data.

2. If you want to distinguish between sending, receiving and control, you need to define the format yourself

SENSITIVITY		
1.4GHZ	20MHZ	-100dBm
	10MHZ	-103dBm
	5MHZ	-104dBm
	3MHZ	-106dBm
800MHZ	20MHZ	-100dBm
	10MHZ	-103dBm
	5MHZ	-104dBm
	3MHZ	-106dBm

INTERFACE



Automatic Frequency Point Control

After booting, it will try to network with the pre-stored frequency points before the last shutdown. If the pre-stored frequency points are not suitable for network deployment, it will automatically try to use other available frequency points for network deployment.

Automatic Power Control

The transmit power of each node is automatically adjusted and controlled according to its signal quality.

Dimension and Weight

W: 280g

D: 160.4*68*30mm

