

ICRS-MMDS-I Wireless System

Overview

ICRS-MMDS-I is a carrier class wireless system that provides Ethernet connection to remote or hard to reach areas. It works on licensed or unlicensed exempt frequency at Point-to-Point, or Point-to-Multipoint is an economical and powerful solution to provide Ethernet services to the area where laying of cables is not feasible or expensive.

Features & Benefits

- * Advanced OFDM techniques provide better performances under wireless NLOS transmission
 - * Flexible channel bandwidth form 5, 10 to 20MHz enables transmission over longer range and different subscriber platforms
 - * Lower channel bandwidth instead of a fixed one serves more subscribers without wasting unused bandwidth
 - * Adaptive modulation provides smooth connections even in noisy condition or low signal strength
 - * TDMA QoS guarantee high bandwidth to business or professional customers
 - * TDMA QoS provides low latency for voice and video application
- FCC type approval

Outlook



Top View



Side View

ICRS-MMDS-I

Specifications

Technical Parameters	
Operating Protocol	TDD
Signal Format	OFDM
Modulation	BPSK to 64QAM
Channel BW	5MHz / 10MHz / 20MHz programmable
Throughput	1.25Mbps~22Mbps per side/ 54MHz max
Frequency	4.8- 5.9GHz (Switching band width 100MHz)
Configuration	PTP and PTMP
Output Power	~+24dBm (up to 40dBm version is available as option)
Sensitivity	-98dBm @1.25Mbps
Distance	PTP : ~40Km / PMTP : ~30Km
Interface	Ethernet 10/100 BaseT
Operating Temperature	-30° to +55°C
Frequency Stability	+/-5ppm
Encryption	AES Platform
Application	Last mile or backhaul transmission / Telecom-grade wireless Ethernet

Access Point Specifications

Hardware	
CPU/MAC	266MHz Intel XScale IXP 422BB/Atheros AR5212A
Flash	16Mbyte
SDRAM	32Mbyte
LAN	1 x 10/100BaseT RJ-45 with Audio-MDIX
Power Over Ethernet(PoE)	Yes
Default button	Yes

Security	
User Logon	Yes
WEP Encryption	40, 128, 152-bit
Wireless MAC Address Control List	Yes
Wireless Isolation	Yes
802.1xSupport	Yes
Dynamic Key Exchange	EAP-MD5, EAP-TLS, EAP-LEAP, EAP-PEAP
WPA	WPA Enterprise/W PA-PSK

Feature	
Operation Mode	AP Mode / Bridge Mode(Point-to-point; Point-to-multipoint; Repeater)
DHCP Client	Yes
Max Wireless Users	255
Recommended Users	64
Open System Auth.	Yes
Shared Key Auth.	Yes
Preamble Type	Yes
RTS/CTS Threshold	Yes
Fragmentation Threshold	Yes
Passphrase	Yes
Beacon Interval	
802.11d Support	Yes(by Country)
Netbios Naming Resolution	Yes
Transmit Power Control	Relative
Network Management	SNMP, Flow Control at Remote, TDMA QoS at Headend

All technical data are subjected to change without notice.