

ALLGON

ALLGON ETHERNET RADIO LAN-10 AND LAN-100



EASY INTEGRATION BETWEEN LANs FOR PRIVATE NETWORKS

- Interconnection of data and telephone traffic between LANs (business to business).
- IT networks in rural areas.
- Backbone for Internet connectivity.
- PBX and data networks simultaneously over one single connection.
- No additional units or converters to connect all your networks.
- Layer2 switching and full VLAN compatibility provide high-level security in your network.
- More capacity for money than with leased lines, payback in less than 24 months.
- Available in two versions; LAN-10 and LAN-100 for connection to 10 BaseT and 100 BaseTx networks respectively.

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Allgon was the first company to release a PDH microwave radio with an integrated Ethernet interface. Our solution offers a direct connection between LANs at low cost. The Ethernet capacity can be flexibly assigned up to 10 or 36 Mbit/s and supports port-based VLANs. In addition to the Ethernet traffic, PBXs can be connected via the included EI interface.

The management of the Allgon Ethernet Radio is based on Internet protocols, a solution that makes the equipment either web, telnet or SNMP managed.

TECHNICAL SPECIFICATIONS

SYSTEM

Allgon Ethernet Radio	LAN-100				LAN-10			
Frequency bands, GHz	18	23	26	38	18	23	26	38
Output power, dBm*	22	21	21	19	22	21	21	19
Power control	>30 dB dynamic range, software-controlled in 0.1 dB steps				>30 dB dynamic range, software-controlled in 0.1 dB steps			
Receiver thresholds in dBm at BER 10 ⁻⁶ :								
4 Mbit/s (3.5 MHz)	-90	-89	-89	-88	-90	-89	-89	-88
8 Mbit/s (7 MHz)	-88	-87	-87	-86	-88	-87	-87	-86
16 Mbit/s (14 MHz)	-85	-84	-84	-83	-	-	-	-
36 Mbit/s (28 MHz)	-82	-81	-81	-80	-	-	-	-
Redundancy	Hot standby, space-, frequency- and polarization diversity				Not available			
Backplane routing	Supported				Not available			

ETHERNET SPECIFIC DATA

Duplex	Half or full per port, auto-negotiation support	
Number of ports	4x10BaseT/100BaseTx, 4xEI	4x10BaseT, 1xEI
Flow control	Configurable per port (auto-negotiation support)	
Performance	Transmission-store-and-forward. Buffer: 4 Mbyte	
	Full VLAN support (port based, multi-access and trunk)	
	Head-of-line blocking prevention support	
	End-to-end flow control	
	Software-controlled up to 36 Mbit/s, shared between Ethernet and up to 4xEI	Software-controlled up to 8 Mbit/s, shared between Ethernet and up to 1xEI
Physical interfaces	Ethernet: 4 x RJ-45 (IEE802.3)	
	EI: 37 pin DSUB (120 Ohm balanced) (ITU-G.703)	

MANAGEMENT

Physical interfaces	RS-232 (PC or modem), 2 ports and Ethernet 10BaseT	
	Embedded control channel (64 kbit/s timeslot in EI)	Not available
	Control panel with keypad and display	Not available
Built-in management protocols	HTTP server, Telnet server, SNMP agent, FTP client, SMTP agent and Sntp agent	

PHYSICAL

Power supply	24 to 60VDC, any polarity, max 53W
Environmental robustness	According to ETSI standards, CE marking
Temperature ranges:	
Indoor Unit	0 °C to +40 °C
Radio Frequency Unit	-45 °C to +65 °C
Dimensions:	
Indoor Unit	483x44x277 mm (WxHxD) (19", 1U)
Radio Frequency Unit	185x185x140 mm (WxHxD, incl. handle)
Antenna Unit	0.3, 0.6, 1.2 or 1.8 m (diameter)
Weight:	
Indoor Unit	3.2 kg
Radio Frequency Unit	2.7 kg
Antenna Unit	9.2 kg (0.3 m, incl. mast mounting bracket)

*Typical values



Easy integration between LANs and PBX:s for private networks

For more information contact your local Allgon representative



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