Summit Development

SDV 11G

DIGITAL MICROWAVE RADIO

10,7-11,7 GHZ; 350 Mbps FULL DUPLEX

The SDV 11G is a digital microwave radio link system that provides wireless point-to-point connection for full duplex transmission of data, voice and video signals.
Digital radio operates in the 11 GHz licensed frequency band 10,7-11,7 GHz.

FEATURES

- ➔ Up to 350 Mbps Full Duplex
- ➔ Modulation: 32 QAM, 64QAM, 128QAM, 256QAM[1]
- ➔ Forward Error Correction – LPDC (Low Density Parity Check)
- ➔ ATPC – Automatic Transmit Power Control
- ➔ Software configurable channel frequency
- ➔ Software adjustable output power (up to 15 dBm)
- ➔ ACM – Dynamic switching of modulation schemes
- ➔ Encryption radio beam against unwanted interception
- ➔ Supports IEEE 802.3at Power Over Ethernet plus (PoE+)
- ➔ Supports IEEE 802.1q VLAN and VLAN double tagging.
- ➔ Supports IEEE 802.3x Flow Control
- ➔ Built-in BER, RSSI and Quality meter
- ➔ SNMPv1 protocol is implemeted (downloadable MIB file)
- ➔ Easy aligning with the Beeper, built-in RSSI meter or DC voltage on connector
- ➔ Supports the transfer „Giant Packet" (1916 bytes)
- ➔ SW upgrade to higher transmission speed (license keys).
- ➔ The choice of polarization by simply turning the transmitting device 90˚
- ➔ Fast and easy installation
- ➔ Low power consumption

APPLICATIONS

- ➔ Wireless backbone network
- ➔ Metal cable or Fiber optics back up
- ➔ Mobile Network Backhauling (GSM, UMTS, LTE...)
- ➔ E1 / 2xE1 applications
- ➔ LAN / VLAN and WAN interconnection
- ➔ VoIP, Video Conferencing
- ➔ Wireless remote control &cameras for security
- ➔ Last Mile Access
- ➔ IPTV
- ➔ ISP
- ➔ 1Modulation 256-QAM is automatically enabled when you purchase a license for 128-QAM modulation.

IMAGES

The best technologies!

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TECHNICAL SPECIFICATIONS

Radio Specification

Frequency range	10,7 – 11,7 GHz
Duplex spacing	490 MHz / 530 MHz
Frequency stability	±5ppm
TX Output Power	-7 dBm to +15 dBm
ATPC	yes
FEC	LPDC
Polarization	vertical / horizontal
Channel spacing	40 / 56 MHz

Channel spacing 40 MHz				
Modulation	Capacity of radio [Mbps]	Real transmission rate [Mbps]	Sensitivity for BER 10^{-6} [dBm]	Sensitivity for BER 10^{-3} [dBm]
256 QAM	240	233	-66	-68
128 QAM	220	212	-71	-73
64 QAM	190	188	-74	-76
32 QAM	155	149	-77	-79

Channel spacing 56 MHz				
Modulation	Capacity of radio [Mbps]	Real transmission rate [Mbps]	Sensitivity for BER 10-6 [dBm]	Sensitivity for BER 10-3 [dBm]
256 QAM	350	332	-64	-66
128 QAM	310	303	-68	-70
64 QAM	270	268	-71	-73

System Specifications

Interfaces	1000Base-T / 100Base-TX
Summit Management System	Windows GUI, Linux (Wine)
SNMP	SNMP V1 (including MIB I)

Power Supply and Cable

Power Over Ethernet	support IEEE 802.3at (PoE+)
Power consumption	to 25 W
Cable	FTP, Cat 5e

Mechanical and Environmental

Mechanical concept	Full Outdoor Unit
Diemensions [mm]	150 x 240 x 240
Weight [kg]	3,5 kg
Temperature [°C]	-30 to +50° C
Interface connector	RJ45 Cat 5e, IP67

Compliance

Radio	ETSI EN 302 217-2-2 V1.4.1
EMI/EMC	ETSI EN 301 489-1 V1.8.1

CONTACTS

SUMMIT DEVELOPMENT, spol s r.o.

Průmyslová 287
252 17 Tachlovice
Czech Republic

(t:)	+420 311 706 311
(f:)	+420 311 706 319
(e:)	summitd@summitd.cz
(w)	www.summitd.cz