









4G - LTE Router

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	RTDI-312	RTDI-314	RTDI-315	RTDI-317	RTDi-410	RTI-5TXRS-WFN
						
Ethernet interfaces	1x LAN + 1x WAN	3x LAN + 1x WAN	3x LAN + 1x WAN	3x LAN + 1x WAN	1x LAN + 1x WAN	4x LAN + 1x WAN
GNSS - GPS + Galileo + Glonas	-	-	Yes	Yes	-	-
POTS Telephone interface + Modem	-	-	-	-	YES	-
Wi-Fi	-	-	-	802.11 b/g/n	-	802.11bgn
Mobile Network Standards		LTE UMTS / HSPA+ GPRS / EDGE GSM LTE FDD / TDD WCDMA GSM			LTE UMTS / HSPA+ GPRS / EDGE GSM	LTE UMTS / HSPA+ GPRS / EDGE GSM
Max data throughput		LTE : 15 Mbps Down & 50 Mbps Up	-	HSPA+ : 42 Mbps Down & 5.7 Mbps Up	LTE : 15 Mbps Down & 50 Mbps Up	LTE : 15 Mbps Down & 50 Mbps Up
SIM Cards			2		1	1
Serial interfaces			1x RS232 & 1x RS485		1x RS232/RS485	1x RS232
Digital Inputs and Outputs			2x Digital Inputs & 1x Digital Output		2xDi & 1x Do	-
Network Protocols			Dual Stack IP v4 & v6 QoS, VLAN, DHCP, SNTP, DNS proxy, MODBUS		IP v4, v6 QoS, VLAN, DHCP, SNTP, DNS	RIP, VRRP
Routing Protocols			Static, RIP, PPPoE OpenVPN, IPSec - 3DES, AES128, AES256		RIP, OSPF Open-VPN, IPSec, AES	RIP, VRRP OpenVPN, GRE, IPSec, L2TP ADSL on option
Security			DMZ, Port filtering, MAC filtering, URL filtering, IP filtering		DMZ, ACL	DMZ, Port / MAC / URL / IP filtering
Management			http/https, ssh, telnet, syslog, snmp, SMS, email, alarm relay dual firmware image		https, ssh, snmp Radius, SMS, Alarm relay, Secure-Boot	http, https, ssh, Radius, SMS, snmp
Operating temperature range			-20 to +70°C		-20 - +70 °C	-20 - +70 °C
Power supply			12 - 24 Vdc		12-24 Vdc	12 Vdc
Max Power consumption			7 W		7W	20 W
Format			DIN Rail		DIN Rail	Flexible, DIN
Dimensions mm			110x60x106		120x100x38	160x10x32
Weight			0.9 kg		0.7 kb	0,6 kg
Use Cases			Utility substation, Smart-Grid, Smart Metering, Wind & Solar Farms Public Transportation, Intelligent Traffic System, vehicle tracking Video protection, Remote Network Access, WAN backup over LTE		Energy Utility Transportation POS, Enterprise	Energy Utility Transportation POS, Enterprise



XR-320	X2	XD2	XD4	XR-320
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AP Model P/N	XR-320	X2	XD2-230	XD2-240	XD4-130	XD4-240	XH2
in-door or out-door	in-door	in-door	in-door	in-door	in-door	in-door	out-door
Wi-Fi standards	a,b,g,n,ac	a,b,g,n,ac	a,b,g,n,ac	a,b,g,n,ac	a,b,g,n,ac	a,b,g,n,ac	a,b,g,n,ac
Radio type	2x2 867 Mbps Wave1	2x2 867 Mbps Wave1	3x3 1.3 Gbps Wave2	4x4 3,47Gbps Wave2	3x3 1,3Gbps Wave1	4x4 3,47Gbps Wave2	2x2 867 Mbps
Total Radios	2	2	3	2	4	4	2
MIMO Technology	SU-MIMO	SU-MIMO	MU-MIMO : 3 streams	MU-MIMO : 8 streams	SU-MIMO	MU-MIMO	SU-MIMO
Max Wi-Fi bandwidth	1,1 Gbps	1,1 Gbps	3.9 Gbps	6,9 Gbps	5,2Gbps	13,88Gbps	1,7Gbps
Max SSID	8	8	16	16	16	16	16
Max Vlans	52	52	64	64	64	64	64
Max Associated devices	256	512	480	480	780	780	512
Antennas	4	4	6	8	12 (Internal)	16 (internal)	4 N-type
Ethernet interfaces	1GbE PoE/PoE+ Uplink	1GbE PoE Uplink	2-1Gbe support 4 modes		2 - 1GbE	1 - 2.5GbE / 1 - 1GbE	1GbE PoE/PoE+ Uplink
	4GbE (Including 1xPoE output) or 110 punch down block		802.3ad (Aggregate traffic) broadcast		802.3ad (Aggregate traffic) broadcast		2 x 1GbE
	1 pass through port 48VDC connector reset button		Link-backup (failover), loadbalancing		Link-backup (failover) loadbalancing		
POE requirement	802,3af when no PoE output is required	802.3af	802.3at		802.3at	-	
	802,3at PoE+ compatible for PoE output port						
	48VDC (at least 0,65A)						48VDC (at least 0,65A)
Operating temperature	0 - 50 °C	0 - 50 °C	0 - 50 °C		0 - 55 °C		-20°C to 55°C
Max Power consumption	30 W	12,5 W	20 W	24W*	25.5W	38W	30 W
Format	wall mount	Circular	Circular		Circular		flexible mounting option
Dimensions mm	26,8 x 86 x 150	20,3 x 4,6 (Dia X H)	20,3 x 2,5 (DIA X H)		25,4 x 5,1 (DIA X H)		26,8 x 86 x 150
Weight	450g	900g	815g		1,13kg	1kg	2,7kg
Use Cases	Hotels Dorms Offices	Offices Hotels Classrooms	Dense Offices Classrooms		Classrooms Conf Rooms Libraries		General Coverage Stadium Arenas

* With Bluetooth



P2P and P2MP Broadband Wireless

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Trinity 216	Trinity 318	Trinity 323	BS 340	Trinity 300	Trinity 823	Trinity 800	BS 840	Tracker
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Trinity Model P/N	TY-216	TY-318	TY-323	BS-340	TY-300	TY-823	TY-800	BS-840	NT-823-OFS
IP-68 Off-Shore P/N	-	TY-318-OFS	TY-323-OFS	BS-340-OFS	TY-300-OFS	T-823-OFS	TY-800-OFS	BS-840-OFS	NT823-OFS
Subscriber Unit P/N	SU-216 & SU-223	-	-	-	-	-	-	-	-
Max Ethernet Bandwidth	100 Mbps	245 Mbps	245 Mbps	245 Mbps	245 Mbps	700 Mbps	700 Mbps	-	700 Mbps
Frequency Bands	5.150 - 5.850 GHz	5.150 - 5.850 GHz	5.150 - 5.850 GHz	5.150 - 5.850 GHz	5.150 - 5.850 GHz	4.9 - 6.1 GHz	4.9 - 6.1 GHz	4.9 - 6.1 GHz	4.9 - 6.1 GHz
Antenna	16 dBi 30°	18 dBi 17°	24 dBi 7/9°	14 dBi 90°	N connector	24 dBi 8°	N connector	14 dBi 90°	24 dBi 20°/sec tracking GPS assisted
Polarization	V & H	V & H	V & H	V&H	-	V & H	-	V & H	-
Channel width	5 / 10 / 20 / 40 MHz	5 / 10 / 20 / 40 MHz	5 / 10 / 20 / 40 MHz	5 / 10 / 20 / 40 MHz	5 / 10 / 20 / 40 MHz	20 / 40 / 80 MHz	20 / 40 / 80 MHz	20 / 40 / 80 MHz	20 / 40 / 80 MHz
Modulation	OFDM, BPSK, QPSK, 16QAM, 64QAM	OFDM, BPSK, QPSK, 16QAM, 64QAM	OFDM, BPSK, QPSK, 16QAM, 64QAM	OFDM, BPSK, QPSK, 16QAM, 64QAM	OFDM, BPSK, QPSK, 16QAM, 64QAM	OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM	OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM	OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM	OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM
Data encryption	AES128	AES128	AES128	AES128	AES128	AES128	AES128	AES128	AES128
Typical Latency	3 ms	3 ms	3 ms	3 ms	3 ms	1 ms	1 ms	1 ms	1 ms
Ethernet interface	1x 10/100 BaseT	1x 10/100/1000 BaseT	1x 10/100/1000 BaseT	1x 10/100/1000 BaseT	1x 10/100/1000 BaseT	2x 10/100/1000 BaseT	2x 10/100/1000 BaseT	2x 10/100/1000 BaseT	1x 10/100/1000 BaseT
Ethernet Bridge	802.1p bridge 802.1q transparent	802.1p bridge 802.1q transparent	802.1p bridge 802.1q transparent	802.1p bridge 802.1q transparent	802.1p bridge 802.1q transparent	802.1p bridge 802.1q transparent	802.1p bridge 802.1q transparent	802.1p bridge 802.1q transparent	802.1p bridge 802.1q transparent
QoS	4 classes, WMM	4 classes, WMM	4 classes, WMM	4 classes, WMM	4 classes, WMM	4 classes, WMM	4 classes, WMM	4 classes, WMM	4 classes, WMM
Performance	> 30,000 pps	> 40,000 pps	> 40,000 pps	> 40,000 pps	> 40,000 pps				
Management	https, snmp Free Cloud NMS	https, snmp Free Cloud NMS Instal. Web + led Speed test	https, snmp Free Cloud NMS Instal. Web + led Speed test	https, snmp Free Cloud NMS Instal. Web + led Speed test	https, snmp Free Cloud NMS Instal. Web + led Speed test	https, snmp Free Cloud NMS Instal. Web + led + buzz Speed test	https, snmp Free Cloud NMS Instal. Web + led + buzz Speed test	https, snmp Free Cloud NMS Instal. Web + led + buzz Speed test	https, snmp Free Cloud NMS Instal. Web + led + buzz Speed test
Power supply	PoE, 24-56 Vdc	PoE, 36 - 54 Vdc	PoE, 36 - 54 Vdc	PoE, 36 - 54 Vdc	PoE, 36 - 54 Vdc	PoE, 36 - 54 Vdc	PoE, 36 - 54 Vdc	PoE, 36 - 54 Vdc	PoE, 36 - 54 Vdc
Max Power consumption	6 W	6 W	6 W	6 W	6 W	18 W	18 W	18 W	18 W
Operating temperature	-40 - +55 °C	-40 - +55 °C	-40 - +55 °C	-40 - +55 °C	-40 - +55 °C	-40 - +80 °C	-40 - +55 °C	-40 - +80 °C	-40 - +55 °C
IP Protection	IP-55	IP-67 / IP-68	IP-67 / IP-68	IP-67 / IP-68	IP-67 / IP-68	IP-67 / IP-68	IP-67 / IP-68	IP-67 / IP-68	IP-67 / IP-68
Dimensions mm	250x210x80	270x270x75	370x370x95	284x174x81	284x174x81	370x370x95	284x174x81	370x370x95	
Weight	1,1 kg	2.9 kg	4 kg	4 kg	2 kg	4 kg	2 kg	4 kg	15 kg
Use Cases	P2P & P2MP short range video, ISP	P2P & P2MP mid-range video, ISP	P2P & P2MP long range video, ISP	P2P & P2MP Base-station to multiple Subscribers	P2P & P2MP very long range video, ISP	P2P & P2MP long range video, ISP	P2P & P2MP very long range video, ISP	P2MP Base-station to multiple Subscribers	Mobile systems Maritime communication Ferry-boat internet access



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Rev.04



PoE Ethernet Switch

SWCE-2310

SWM-2418

SWM-2828

SWM-3656



Model P/N	SWCE-2310-P-D	SWM-2418-P-A	SWM-2828-P	SWM-3656-P-M
Gigabit POE ports	8	16	24	48
Gigabit Up-Link ports	2x 2.5 GbE	2		-
10 Gigabit Up-Link ports	-	-	4x SFP+ GE / 10GE	8
POE range	802.3at POE+	802.3at POE+	802.3at POE+	802.3at POE+
Ethernet Protocols	VLAN, Q-in-Q STP, RSTP, MSTP G.8032 ERPS IGMP QoS 802.1p	VLAN, Q-in-Q STP, RSTP, MSTP IGMP QoS 802.1p	VLAN, Q-in-Q STP, RSTP, MSTP, ERPS IGMP QoS 802.1p	VLAN, Q-in-Q, GVRP STP, RSTP, MSTP, ERPS IGMP QoS 802.1p
IP Protocols	-	-	IP v4 / v6 OSFP, RIP VRRP	IP v4 / v6 OSFP, RIP, BGP VRRP
Security	802.1X Radius, Tacacs ACL	802.1X ACL	802.1X Tacacs ACL	802.1X Radius ACL
Operating temperature	-20 - 70 °C Fanless	0 - 50 °C	0 - 50 °C	0 - 50 °C
Power supply	48 Vdc	110 - 230 Vac	110 - 230 Vac	2x slots of 110-230 Vac 550 and 1,100 W cards
Max Power consumption	15 W	20 W	35 W	60 W
Format	mini 19" / 1U	19" / 1U	19" / 1U	19" / 1U
Dimensions mm	216x130x44	442x315x44	442x315x44	442x400x44
Weight	0.7 kg	2,5 kg	6,5 kg	8,2 kg





Wi-Fi Modular & High Density Access Points

Click on the product picture to access the on-line datasheet



XR-2000



XR-4000



AP Model P/N	XR-2226	XR-2236	XR-2426	XR-2436 XR-2436-Wave2	XR-4426	XR-4436	XR-4826	XR-4836
Wi-Fi standards	a,b,g,n,ac	a,b,g,n,ac	a,b,g,n,ac	a,b,g,n,ac	a,b,g,n,ac	a,b,g,n,ac	a,b,g,n,ac	a,b,g,n,ac
Radio type	2x2 867Mbps Wave1 *	3x3 1,3Gbps Wave1 *	2x2 867Mbps Wave1 *	3x3 1,3Gbps (Wave1) 4x4 3,47Gbps (Wave2)	2x2 867Mbps Wave1 *	3x3 1,3Gbps Wave1 *	2x2 867Mbps Wave1 *	3x3 1,3Gbps (Wave1) 4x4 3,47Gbps (Wave2)
Total Radios	2	2	4	4	4	4	8	8
MIMO Technology	SU-MIMO	SU-MIMO	SU-MIMO	SU-MIMO / MU-MIMO 16 streams	SU-MIMO	SU-MIMO	SU-MIMO	SU-MIMO / MU-MIMO 32 streams
Max Wi-Fi bandwidth	1,73Gbps	2,6Gbps	3,47Gbps	5,2Gbps / 13,88Gbps	3,5Gbps	5,2Gbps	5.26Gbps	8,6Gbps / 27,7Gbps
Max SSID	16	16	16	16	16	16	16	16
Max Vlans	64	64	64	64	64	64	64	64
Max Associated devices	480	480	960	960	960	960	1920	1920
Antennas	4	6	8	12 / 16	8	12	16	24 / 32
Ethernet interfaces	2 - 1GbE			2 - 1GbE				
	802.3ad (Aggregate traffic), broadcast, Link-backup (failover), loadbalancing			802.3ad (Aggregate traffic), broadcast, Link-backup (failover), loadbalancing				
POE requirement	802.3at	802.3at	802.3at	-	-	-	-	-
Operating temperature	0 - 50 °C			0 - 50 °C				
Max Power consumption	22.5W	26.1W	30W	37W / 49W	33W	38W	45W	50W / 74W
Format	Circular			Circular				
Dimensions mm	27,9 x 5,1 (DIA x H)			33 x 5,1 (DIA x H)				
Weight	900g			1,3kg			1,3kg	
Use Cases	Classrooms Conf Rooms Libraries			Auditoriums Convention Centers				

* Wave2 ready

* Wave2 ready

* Wave2 ready

* Wave2 ready

* Wave2 ready

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