RK2X series

Industrial routers for complete and secure remote assistance in any industrial scenario

HIGHLIGHTS

- Integrated UBIQUITY software for IEC 62443-certified remote assistance
- Access to automation devices connected to the router via Ethernet, serial and USB ports through a VPN optimized for industrial communications
- Provides remote assistance and remote access on any automation device where the software application (UBIQUITY runtime) cannot be installed or in machinery and plants without an Internet connection.
- Reliability, speed and low latency guaranteed by end-to-end connection
- The systems are based on ARM processors and feature two Gigabit Ethernet ports (one LAN and one WAN), a USB 2.0 interface, and a serial multi-standard connection
- RK21 and RK22 systems available with Wi-Fi module and 4G LTE modem for maximum wireless connectivity
- RK22 available with an integrated four-port Gigabit Ethernet switch
- Available with two 24VDC digital inputs for enabling remote access and device reset and two low-voltage relay outputs for useful operational signaling
- Rugged and elegant chassis for book or DIN-rail mounting
- Available with extended operating temperature range for installations in harsh environments
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UBIQUITY INSIDE

ASEM
System Manager

CE   RoHS   UKCA   c UL us LISTED

ASEM
A ROCKWELL AUTOMATION COMPANY

RK2X series

Technical data

	20	21 (Wi-Fi version)	21 (Wi-Fi + 4G version)	21 (4G version)	22 (Wi-Fi version)	22 (Wi-Fi + 4G version)	22 (4G version)
REMOTE ASSISTANCE SW	UBIQUITY Router Runtime						
O.S. INSTALLED	Linux Yocto						
O.S. INSTALLED — Utility	Asem System Manager						
PROTECTION GRADE IP — IP rating	IP20						
PROTECTION GRADE IP — NEMA rating	UL type 1 (indoor only)						
CASE — Installation	DIN mounting/ Book mounting						
CASE — Material	Aluminum						
PROCESSOR (soldered on-board)	NXP® i.MX7 DualLite ARM Cortex A7/M4 1GHz • integrated GPU						
SYSTEM MEMORY RAM	1GB (DDR3L module)						
MASS STORAGE	8GB eMMC MLC						
INTERFACES — LAN	1x Gigabit Ethernet (RJ45)				1x Switch Ethernet (4x Gigabit Ethernet)		
INTERFACES — WAN	1x Gigabit Ethernet (RJ45)						
INTERFACES — USB	1x USB 2.0 (Type-A)						
INTERFACES — SERIAL	1x RS232/422/485 isolated (DB9M)						
WI-FI — Model	-	Intel AC9260 (M.2 interface)		-	Intel AC9260 (M.2 interface)		-
WI-FI — Standard	-	IEEE 802.11a/b/g/n/ac, 2.4GHz/5GHz • Bluetooth 5.1 • Data rate up to 1.73Gbps		-	IEEE 802.11a/b/g/n/ac, 2.4GHz/5GHz • Bluetooth 5.1 • Data rate up to 1.73Gbps		-
WI-FI — Security	-	WEP 64/128bit, WPA, WPA2, WPS, 802,1x		-	WEP 64/128bit, WPA, WPA2, WPS, 802,1x		-
WI-FI — Antenna	-	2x RP-SMA Female connector		-	2x RP-SMA Female connector		-
CELLULAR NETWORK — Standard	-		2G/3G/4G LTE CAT 4 Multi-Band All regions • Data rate up to 50Mbps upload / 150Mbps download	-		2G/3G/4G LTE CAT 4 Multi-Band All regions • Data rate up to 50Mbps upload / 150Mbps download	-
CELLULAR NETWORK — Antenna	-		1x SMA Female connector	-		1x SMA-F connector	-
CELLULAR NETWORK — SIM	-		1x SIM card socket push-push type	-		1x SIM card socket push-push type	-
DIGITAL INPUT — IN0	Security key for WAN connection activation. Function managed by UBIQUITY (RK/RM) Freely configurable using UNIQO (DM)						
DIGITAL INPUT — IN1	UBIQUITY Router software reset (RK/RM) Freely configurable using UNIQO (DM)						
DIGITAL INPUT — Type	0÷24V isolation 500V						
DIGITAL OUTPUT — OUT0	UBIQUITY Router WAN enabled connection signal (RK/RM) Freely configurable using UNIQO (DM)						
DIGITAL OUTPUT — OUT1	UBIQUITY remote assistance service running signal (RK/RM) Freely configurable using UNIQO (DM)						
DIGITAL OUTPUT — Type	Output with relay (max 200mA - 24VDC - N.O.)						
POWER SUPPLY INPUT	12/24VDC (9 ÷ 34VDC) isolated						
OPERATING TEMPERATURE	-20°C ÷ 60°C w/ radio module -20°C ÷ 65°C w/o radio module						
STORAGE TEMPERATURE	-20° ÷ 60°C						
OPERATING/STORAGE RELATIVE HUMIDITY	20% ÷ 90% RH (non-condensing)						
APPROVALS	CE RoHS UKCA cULus Listed						