

# Modular and Cellular RTU Controllers



	ioPAC 8020-5-C-T	ioPAC 8020-9-C-T	ioLogik W5312	ioLogik W5340
<b>Inputs/Outputs</b>				
Digital Inputs	–	–	8	–
Digital Outputs	–	–	8	–
Relay Outputs	–	–	–	2
DI/DO Configurable	–	–	4	8
Analog Inputs	–	–	–	4
<b>Cellular</b>				
GSM/GPRS/EDGE	–	–	✓	✓
<b>Ethernet</b>				
Ports (Connector)	2 (M12 or RJ45)		1 (RJ45)	
Speed	10/100 Mbps		10/100 Mbps	
Switch (Daisy Chain)	✓	✓	–	–
Protocols	–		Modbus/TCP, TCP/IP, UDP, DHCP, Bootp, SNMP, SNTp, SMTP	
<b>Serial</b>				
Ports (Connector)	1 (DB9 male)		1 (DB9 male or terminal block)	
Interface	RS-232/422/485		RS-232/422/485	
Protocols	–		Modbus/RTU	
<b>Physical Characteristics</b>				
I/O Module Slots	5	9	–	–
<b>Environmental Limits</b>				
Standard Operating Temp.	-40 to 75°C		-10 to 55°C	
Wide Operating Temp.	-40 to 75°C		-30 to 70°C	
Storage Temp.	-40 to 85°C		-40 to 85°C	
Ambient Relative Humidity	5 to 95% RH (non-condensing)		5 to 95% RH (non-condensing)	
<b>Software</b>				
Programmability	C/C++		Click&Go	
Active OPC Server	✓	✓	✓	✓
DA-Center	✓	✓	✓	✓
MXIO	–	–	✓	✓
Configuration Utility	✓	✓	✓	✓
<b>Standards and Certifications</b>				
Safety	UL 508			
EMI	FCC Part 15, Subpart B, Class A; EN 61000-3-2; EN 61000-3-3; EN 61000-6-4 or EN 55022			
EMS	EN 55024; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-8; EN 61000-4-11; EN 61000-6-2			
Shock	IEC 60068-2-27			
Freefall	IEC 60068-2-32			
Vibration	IEC 60068-2-6			
Rail Traffic	EN 50155; EN 50121-3-2; EN 50121-4		–	–
<b>Reliability</b>				
Warranty	5 years	5 years	5 years	2 years*

\*Because of the limited lifetime of power relays, products use that component are covered by a 2-year warranty.

# Modules for Modular RTU Controllers



Module Properties	Digital Input		Digital Output		Analog Input		Ethernet Switch
	RM-1050-T	RM-1602-T	RM-2600-T	RM-3802-T	RM-3810-T	RM-3810-T	KM-2430-T
Channels/Ports (Connector)	10 (terminal block)	16 (terminal block)	16 (terminal block)	8 (terminal block)	8 (terminal block)	8 (terminal block)	4 (M12)
Mode/Speed	110 VDC	24 VDC	24 VDC	4-20 mA	0-10 VDC	0-10 VDC	10/100 Mbps
Type	isolated	sink/source	sink	–	–	–	unmanaged
<b>Environmental Limits</b>							
Operating Temperature	-40 to 75°C						
Storage Temperature	-40 to 85°C						
Ambient Relative Humidity	5 to 95% RH (non-condensing)						
<b>Reliability</b>							
Warranty	5 years (see <a href="http://www.moxa.com/warranty">www.moxa.com/warranty</a> )						