groov PRODUCT COMPARISON CHART

	groov EPIC®	*groov* RIO®	*groov* Box	*groov* Server for Windows
Description	Edge programmable industrial controller	Edge I/O	Edge appliance	Server for *groov* View HMI
Industrially hardened device	x	x	x	(Depends on PC)
Software that runs on Windows PC				x
Field I/O	0–16 *groov* I/O modules can be placed on same chassis	Built-in, software-configurable I/O		
Purpose				
Real-time industrial control	x			
I/O	x	x		
Data processing	x			
Data communication	x	x	x	
IIoT connectivity	x	x	x	
Visualization (HMI)	x		x	x
Software				
Control programming	• PAC Control software • CODESYS Development System (all IEC 611310-3 compliant languages) • Custom programs run via secure shell access (SSH)	n/a	n/a	n/a
Node-RED (data flows)	x	x	x	
Ignition from Inductive Automation® (additional cost)	x			
Ignition Edge® (additional cost; drivers for Allen-Bradley® & Siemens® PLCs, Modbus®/TCP devices & software; MQTT communications)	x		x	
groov View (HMIs for mobile devices, PCs, any device with a web browser)	x		x	x
groov Manage (configuration)	x	x		
groov Admin (configuration)			x	
Secure shell access (SSH)	x	x		
IIoT Connectivity				
OPC UA	x		x	x
MQTT with Sparkplug B	x	x	(only via Node-RED or Ignition Edge)	
Node-RED	x	x	x	
RESTful APIs	• PAC Control variables • *groov* Manage (to I/O) • *groov* View Data Stores	• *groov* Manage (to I/O) • *groov* View Data Stores	• *groov* View Data Stores	• *groov* View Data Stores

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Data Handling				
Data acquisition	x	x		
Data storage	x	x		
Data processing	x			
Data communication	x	x	x	
Security and Networking				
Data encryption (HTTPS/TLS)	x	x	x	x
User authentication	x	x	x	x
Self-signed or Certificate Authority certificates	x	x	x	
Device firewall, configurable	x	x		
LDAP support	x	x		
VPN client	x	x		
Two independent Ethernet NICs (different IP addresses)	x		x	(Depends on PC)
Two switched Ethernet NICs (same IP address)		x		
IP address format	IPV4/IPV6	IPV4/IPV6	IPV4	IPV4/IPV6
HDMI ports	One (for external monitor)			
USB ports	Two USB 2.0 (for external keyboard/mouse, WiFi adapter, serial adapter, or USB memory stick to 32 GB)	One USB 2.0 (for WiFi adapter, serial adapter, or USB memory stick to 32 GB)	Three USB 2.0 (for USB memory stick backups up to 2GB, WiFi adapter, or serial adapter)	
General				
Built-in, high-resolution color touchscreen display	x			
Mounting	Requires groov EPIC chassis Chassis: DIN-rail or panel mounted	Self-contained; DIN-rail or panel mounted	Self-contained, DIN-rail or panel mounted	n/a
Power	AC, DC, or pass-through power supply options on chassis	Power over Ethernet or 10-32 VDC input	8–32 VDC (power supply included)	n/a
Operating temperature	-20 °C to +70 °C	-20 °C to +70 °C	0-70 °C	n/a
Storage temperature	-40 °C to +85 °C	-40 °C to +85 °C	-20 to +80 °C	n/a
Relative humidity, non-condensing (operating)	5 to 95%	5 to 95%	10 to 90%	n/a
Agency approvals	UL/cUL (Class 1 Div. 2), CE, ATEX (Category 3, Zone 2), RoHS, DFARS	UL/cUL(Class 1 Div. 2); CE, ATEX(Category 3, Zone 2), RoHS; DFARS; CB Scheme	CE, RoHS, DFARS	n/a
Warranty	Processor: 30 months Most I/O modules: lifetime warranty	30 months	30 months	n/a