1681-230208

PAC Control [™] Basic		
AC CUILIUI DASIC	•	٠
PAC Control Professional		•
PAC Display [™] Basic	•	٠
PAC Display Professional		•
PAC Manager [™]	•	٠
DptoOPCServer™		•
DptoDataLink [™]		٠
SoftPAC [™]		•
Control software: PAC Control		
proov EPIC processor	•	٠
SNAP PAC controllers (S-series and R-series)	•	•
SoftPAC software-based controller	•	۲
Built-in I/O unit (in groov EPIC processors and SNAP PAC R-series controllers)	•	•
proov RIO modules (with groov EPIC and SNAP PAC controllers) ¹	•	٠
SNAP PAC brains (obsolete)	•	٠
G4EB2 brains (with groov EPIC and SNAP PAC controllers)	•	•
Ethernet I/O units—E1, E2, EIO, UIO (with <i>groov</i> EPIC and SNAP PAC controllers)	•	٠
Serial <i>mistic</i> [™] brains/bricks: B3000-B, B3000, SNAP-BRS, B100, B200, G4D16R, G4D32RS, G4A8R (with SNAP PAC S-series controllers) ²		•
Controller to PC: groov EPIC and SNAP PAC—Ethernet	•	٠
Controller to I/O:		
groov EPIC—Ethernet only	•	•
SNAP PAC S-series:	•	•
 Ethernet to R-series controllers and obsolete EB brains 	•	•
– Serial to obsolete SB brains	•	•
– Serial to obsolete <i>mistic</i> brains		•
SNAP PAC R-series—Ethernet only	•	•
Controller to third-party devices: Ethernet or serial ³	•	•
Support for Ethernet link redundancy or segmented control network		•
Obsolete as of 2022] Support for controller redundancy (SNAP PAC S-series only) 4		•
Flowchart programming	•	٠
DptoScript programming	•	•
Subroutines (debuggable)	•	•
Graphical debugger	•	٠
Conversion utility for OptoControl 4.1 strategies		•
Support for serial <i>mistic</i> I/O units ²		٠
Ethernet link redundancy (with S-series controllers and R-series I/O units)		•
	AC Display Professional AC Manager [™] DiptoOPCServer [™] Control software: PAC Control rroov EPIC processor SNAP PAC controllers (S-series and R-series) SoftPAC software-based controller Built-in I/O unit (in groov EPIC processors and SNAP PAC R-series controllers) rroov RIO modules (with groov EPIC and SNAP PAC controllers) SNAP PAC brains (obsolete) S4EB2 brains (with groov EPIC and SNAP PAC controllers) S4EB2 brains (with groov EPIC and SNAP PAC—Ethernet Controller to PC: groov EPIC and SNAP PAC—Ethernet S0AP PAC S-series: - Ethernet to R-series controllers and obsolete EB brains - Serial to obsolete mistic brains SNAP PAC R-series—Ethernet only S0AP PAC R-series—Ethernet only Controller to third-party devices: Ethernet or serial ³ S0AP PAC R-series—Ethernet only Controller to third-party devices: Ethernet or serial ³ S0AP PAC R-series—Ethernet or seriel R	AC Display Professional AC Manager [™] DiptoPCServer [™] DiptoPCServer [™] Control software: PAC Control roov EPIC processor SNAP PAC controllers (S-series and R-series) SoftPAC [™] Control software: PAC Controller SNAP PAC controllers (S-series and R-series) SoftPAC software-based controller SNAP PAC controllers (S-series and R-series) SoftPAC software-based controller SNAP PAC controllers (S-series and R-series) SoftPAC software-based controller SNAP PAC brains (obsolete) Statement I/O unit (in groov EPIC and SNAP PAC controllers) ¹ Statement I/O units-E1, E2, EIO, UIO (with groov EPIC and SNAP PAC controllers) SoftPAC Software-based controller Software-based controllers) Statement I/O units-E1, E2, EIO, UIO (with groov EPIC and SNAP PAC controllers) Statement I/O units-E1, E2, EIO, UIO (with groov EPIC and SNAP PAC controllers) SoftPAC groov EPIC and SNAP PAC s-series controllers) ² Sontroller to I/O: groov EPIC-Ethernet only SNAP PAC S-series: - Ethernet to R-series controllers and obsolete EB brains - Serial to obsolete B brains - Serial to obsolete B brains - Serial to obsolete mistic brains SNAP PAC R-series-Ethernet only Sontroller to third-party devices: Ethernet or serial ³ Support for Ethernet link redundancy or segmented control network Disolete as of 2022] Support for controller redundancy (SNAP PAC S-series only) ⁴ Soutroller to third-party devices: Ethernet or serial ³ Support for Ethernet link redundancy or segmented control network Disolete as of 2022] Support for controller redundancy (SNAP PAC S-series only) ⁴ Support for Ethernet link redundancy or segmented control network Disolete as of 2022] Support for controller redundancy (SNAP PAC S-series only) ⁴ Support for Strien misitor I/O units ² Support for serial mistic I/O units ² Support for s

The following table compares the features in version R10.3 of PAC Project Basic[™] and PAC Project Professional[™].



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	Feature	Basic	Pro
Maximum charts running at once	On groov EPIC (plus host task)	64	64
	On SoftPAC (plus host task)	64	64
	On SNAP PAC S-series (plus host task)	32	32
	On SNAP PAC R-series (plus host task)	16	16
Proportional-integral-deriva- tive (PID) loops	PID algorithms for Ethernet I/O units	4	4
	PID algorithm for <i>mistic</i> serial units ²	-	1
	Loops per SNAP PAC rack-mounted controller or brain	96	96
	Loops per groov RIO module	4	4
	Loops per <i>mistic</i> brain/brick ²	_	8
	Graphical tuner for Ethernet PID loops	•	•
	Graphical tuner for <i>mistic</i> ² PID loops		٠
Ethernet link redundancy	Primary and secondary IP addresses on <i>groov</i> EPIC processors and SNAP PAC controllers		•
	PAC Control commands can be used to control redundancy algorithm		٠
Controller redundancy ⁴	PAC Redundancy Manager utility		٠
[Required hardware obsolete as of 2022.]	Checkpoint blocks		٠
	Modbus Integration Kit (serial and TCP)	•	•
Additional toolkits ⁵	Controller Area Network (CAN) Integration Kit ⁶	•	•
	Other Integration Kits (BACnet, TL1, DNP3, IEC60870-5, Allen-Bradley DF1) ⁶	•	•
	HMI software: PAC Display	1	
	Alarming	•	•
	Trending	•	•
	Logging	•	٠
	Operator authentication and login	•	•
Main features	3000-graphic library	•	•
	Additional graphics tools for PID and embedding web pages		•
	Data logging to MySQL, Microsoft $^{\!(\!8\!)}$ SQL Server, and other ODBC databases		•
	Conversion utility for OptoDisplay projects		•
	Primary and secondary IP addresses for control engine		•
	Primary and secondary scanner		•
	groov EPIC processors ⁷	•	٠
Controllors supported	SNAP PAC controllers	•	•
Controllers supported	ioControl controllers	•	٠
	OptoControl controllers with Ethernet interface		•
	OPC server: OptoOPCServer ⁸		
OPC version	OPC DA 2.0-compliant ⁸		٠
	Database connectivity: OptoDataLink ⁹		
Databases supported	Microsoft SQL Server, Microsoft Access, MySQL, and ODBC-compatible databases		•



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	Feature	Basic	Pro
	PC-based control: SoftPAC		
Compatible I/O	groov RIO modules	•	•
	groov I/O (EPIC processor)	•	•
	SNAP PAC (R-series and EB-series)	•	•
	Ethernet I/O units (E1, E2, UIO, EIO)	•	•
	G4EB2 brains	•	•

1 Requires SNAP PAC controller firmware 10.3a or higher or groov EPIC firmware 2.0.0 or higher.

2 Requires SNAP PAC S-series controller(s).

3 On a groov EPIC, serial connections from the processor require a USB-to-serial adapter.

4 The required SNAP-PAC-ROK Redundancy Option Kit is obsolete as of 2022.

5 For more information, see the Communication Tools & Protocols for Opto 22 Products Technical Note (form 1820).

6 Not recommended for use with groov EPIC processors running PAC Control.

7 PAC Display projects can include groov EPIC systems and groov RIO modules. PAC Display cannot run on an EPIC processor; it runs on a Microsoft Windows PC.

8 For an OPC UA-compliant server, use a groov EPIC processor.

9 Do not use OptoDataLink with a groov EPIC processor; use its included data communication options instead.

