

SNAP Ethernet Systems Product Guide

Software

ioProject Basic	SNAP Ethernet systems software suite; includes ioControl Basic, ioDisplay Basic, and ioManager
ioProject Professional	SNAP Ethernet systems software suite; includes ioControl Pro, ioDisplay Pro, OptoOPCServer, and ioManager
ioControl Professional	Control strategy development software
ioDisplay Professional	Operator interface (HMI) development software
OptoOPCServer	OPC 2.0 communication software
ioManager	Controller and brain configuration software

SNAP PACs and Controllers

SNAP-PAC-R1	Programmable automation controller, on the rack; full digital features
SNAP-PAC-R2	Programmable automation controller, on the rack; simple digital
SNAP-PAC-S1	Programmable automation controller; standalone
SNAP-UP1-ADS	Analog/digital/serial Ultimate controller/brain
SNAP-UP1-M64	Analog/simple digital/serial Ultimate controller/brain

SNAP Ethernet I/O Brains

SNAP-B3000-ENET*	Analog/digital/serial Ethernet brain
SNAP-ENET-S64	Analog/simple digital/serial Ethernet brain
SNAP-ENET-RTC	Analog/digital/serial Ethernet brain with real-time clock

SNAP Mounting Racks

SNAP-B4M*	4-module rack
SNAP-B8M*	8-module rack
SNAP-B8MC/MC-P	8-module rack with terminal block
SNAP-B12M*	12-module rack
SNAP-B12MC/MC-P	12-module rack with terminal block
SNAP-B16M*	16-module rack
SNAP-B16MC/MC-P	16-module rack with terminal block
SNAP-M16	4-module rack for SNAP-UP1-M64 and SNAP-ENET-S64 brains
SNAP-M32	8-module rack for SNAP-UP1-M64 and SNAP-ENET-S64 brains
SNAP-M64	16-module rack for SNAP-UP1-M64 and SNAP-ENET-S64 brains

SNAP Analog Input Modules

SNAP-AIARMS	2-channel analog current input, 0–10 amp RMS AC/DC
SNAP-AIARMS-i	2-channel isolated analog current input, 0–10 amp RMS AC/DC
SNAP-AICTD	2-channel analog temperature input, ICTD
SNAP-AICTD-4	4-channel analog temperature input, ICTD
SNAP-AIILC	Load cell input, 10 VDC excitation, 2 or 3 mV/V input sensitivity
SNAP-AIMA	2-channel analog current input, –20 mA to +20 mA
SNAP-AIMA-i	2-channel isolated analog current input, –20 mA to +20 mA
SNAP-AIMA-4	4-channel analog current input, –20 mA to +20 mA
SNAP-AIMA-ISRC	2-channel isolated analog current input, –20 mA to +20 mA, with loop sourcing
SNAP-AIMA2-i	2-channel isolated analog current input, –1.0 mA to +1.0 mA
SNAP-AIMV-4	4-channel analog current input, –150 mV to +150 mV or –75 mV to +75 mV
SNAP-AIMV2-4	4-channel analog current input, –50 mV to +50 mV or –25 mV to +25 mV
SNAP-AIPM	Single-phase power monitoring, 0–250 V RMS and 0–10 amp RMS inputs
SNAP-AIR40K-4	4-channel analog thermistor input, 0–40,000 Ohm
SNAP-AIRATE	2-channel analog rate input, 0–25,000 Hz
SNAP-AIRTD	2-channel analog RTD input, 100 Ohm platinum
SNAP-AITM	2-channel analog input, type E, J, or K thermocouple or –150 mV to +150 mV or –75 mV to +75 mV
SNAP-AITM-i	2-channel isolated analog input, type E, J, or K thermocouple or –150 mV to +150 mV or –75 mV to +75 mV
SNAP-AITM-2	2-channel analog input, type B, C, D, G, N, T, R, or S thermocouple
SNAP-AITM2-i	2-channel isolated analog input, type B, C, D, G, N, T, R, or S thermocouple or –50 mV to +50 mV or –25 mV to +25 mV
SNAP-AIV	2-channel analog voltage input, –10 VDC to +10 VDC
SNAP-AIV-i	2-channel isolated analog voltage input, –10 VDC to +10 VDC
SNAP-AIV2-i	2-channel isolated analog voltage input, –100 VDC to +100 VDC
SNAP-AIV-4	4-channel analog voltage input, –10 VDC to +10 VDC
SNAP-AIV-72	Single-channel, dual range analog voltage input
SNAP-AIVRMS	2-channel analog voltage input, 0–250 V RMS AC/DC
SNAP-AIVRMS-i	2-channel isolated analog voltage input, 0–250 V RMS AC/DC
SNAP-pH/ORP	2-channel isolated high-impedance analog input, –1.0 VDC to +1.0 VDC and –0.5 VDC to +0.5 VDC

*Factory Mutual approved

SNAP Analog Output Modules

SNAP-AOA-23	2-channel analog current loop output, 4–20 mA
SNAP-AOA-23-ISRC	2-channel isolated analog current loop output, 4–20 mA, with loop sourcing
SNAP-AOA-28	2-channel analog current loop output, 0–20 mA
SNAP-AOV-25	2-channel analog voltage output, 0 to +10 VDC
SNAP-AOV-27	2-channel analog voltage output, –10 to +10 VDC
SNAP-AOD-29	2-channel analog time-proportional digital output, 5–60 VDC

SNAP High-Density Digital Modules

SNAP-IDC-32	32-channel, 10–32 VDC input
SNAP-ODC-32-SRC	32-channel, 5–60 VDC output, load sourcing
SNAP-ODC-32-SNK	32-channel, 5–60 VDC output, load sinking

SNAP Digital Input Modules

All digital input modules are channel-to-channel isolated.

SNAP-IACS	4-channel digital input, 90–140 VAC/VDC, 5 VDC logic
SNAP-IACSA	4-channel digital input, 180–280 VAC/VDC, 5 VDC logic
SNAP-IAC5MA	4-channel digital input, 90–140 VAC/VDC, manual/auto switches
SNAP-IAC5FM*	4-channel digital input, 90–140 VAC/VDC, manual/auto switches
SNAP-IAC5AFM*	4-channel digital input, 180–280 VAC/VDC
SNAP-IDCS	4-channel digital input, 10–32 VAC/VDC, 5 VDC logic
SNAP-IDCSMA	4-channel digital input, 10–32 VAC/VDC, manual/auto switches
SNAP-IDCSD	4-channel digital input, 2.5–28 VDC, 5 VDC logic
SNAP-IDCS-FAST	4-channel digital input, 2.5–16 VDC, 5 VDC logic, high-speed
SNAP-IDCS-FAST-A	4-channel digital input, 18–32 VDC, 5 VDC logic, high-speed
SNAP-IDCSG	4-channel digital input, 35–75 VAC/VDC, 5 VDC logic
SNAP-IDCS-HT	4-channel digital input, 15–32 VDC, leakage-tolerant
SNAP-IDCS-SW	4-channel digital input, self-powering, normally open
SNAP-IDCS-SW-NC	4-channel digital input, self-powering, normally closed
SNAP-IDCSFM*	4-channel digital, 10–32 VDC input, 5 VDC logic
SNAP-IDCSDFM*	4-channel digital, 2.5–28 VDC input, 5 VDC logic
SNAP-IDCSQ	2-axis quadrature position input, 4–24 VDC

SNAP Digital Output Modules

SNAP-OACS	4-channel digital output, 12–250 VAC, 5 VDC logic
SNAP-OACS-i	4-channel isolated digital output, 12–250 VAC, 5 VDC logic
SNAP-OACS-iFM*	4-channel isolated digital output, 12–250 VAC, 5 VDC logic
SNAP-OACSFM*	4-channel digital output, 12–250 VAC, 5 VDC logic
SNAP-OAC5MA	4-channel isolated digital output, 12–250 VAC, manual/auto switches
SNAP-ODCS5SRC	4-channel digital output, 5–60 VDC, 5 VDC logic source
SNAP-ODCS5RCFM*	4-channel digital output, 5–60 VDC, 5 VDC logic source
SNAP-ODCS5SNK	4-channel digital output, 5–60 VDC, 5 VDC logic sink
SNAP-ODCS5SNKFM*	4-channel digital output, 5–60 VDC, 5 VDC logic sink
SNAP-ODCS5ASNK	4-channel digital output, 5–200 VDC, 5 VDC logic sink
SNAP-ODCSR	4-channel isolated dry contact output, 0–100 VDC or 0–130 VAC, normally open
SNAP-ODCSR5FM*	4-channel isolated dry contact output, normally open
SNAP-ODCSR5	4-channel isolated dry contact output, 0–100 VDC or 0–130 VAC, normally closed
SNAP-ODCSR5FM*	4-channel isolated cry contact output, normally closed
SNAP-ODCS-i	4-channel isolated digital output, 5–60 VDC, 5 VDC logic
SNAP-ODCS-iFM*	4-channel isolated digital output, 5–60 VDC, 5 VDC logic
SNAP-ODCSMA	4-channel isolated digital output, 5–60 VDC, manual/auto switches
SNAP-ODCSA-i	4-channel isolated digital output, 5–200 VDC, 5 VDC logic
SNAP-ODCSA-iFM*	4-channel isolated digital output, 5–200 VDC, 5 VDC logic

SNAP Serial Modules

SNAP-SCM-232	2-channel RS-232 serial communication
SNAP-SCM-485-422	2-channel RS-485/422 serial communication
SNAP-SCM-PROFI	Profibus® serial interface
SNAP-SCM-W2	2-channel Wiegand® serial interface

SNAP Power Supplies

SNAP-P55*	5 VDC @ 4 amp, 120 VAC input
SNAP-P55-24DC*	5 VDC @ 4 amp, 24 VDC input
SNAP-P55U	5 VDC @ 5 amp, 100–250 VAC input
SNAP-PS24*	24 VDC @ .75 amp, 120 VAC input
SNAP-PS24U	24 VDC @ 1.25 amp, 100–250 VAC input

Operator Interfaces (Terminals)

OPTOTERMINAL-G20	Operator terminal for SNAP high-density digital modules
OPTOTERMINAL-G70	Programmable Ethernet-enabled display, 5.7" (145 mm) diagonal
OPTOTERMINAL-G75	Programmable Ethernet-enabled display, 10.4" (264 mm) diagonal