

CONNECTIVITY REFERENCE GUIDE

Vital Sync™ System

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Medtronic
Further, Together

DEVICES SUPPORTED

Vital Sync™ System

The current release of the Vital Sync™ system supports the following devices.

DEVICE TYPE	MEDTRONIC DEVICE	MINIMUM SOFTWARE VERSION
Ventilator	Puritan Bennett™ 840 ventilator	4-070212-85-AK
	Puritan Bennett™ 980 ventilator	10109869 Rev AC
	Newport™ HT70 ventilator	P05.12
Bedside pulse oximeter	Nellcor™ N-600X monitor	v1.0.6.0
	Nellcor™ N-600XA monitor	v2.0.6.0
	Nellcor™ bedside respiratory patient monitoring system	v1.2.21
Bedside capnography monitor	Capnostream™ 20 monitor	v7.4
	Capnostream™ 20p monitor	v7.8
	Capnostream™ 35 monitor	v1.0

Note:

This guide focuses on the connectivity of Medtronic devices to the Vital Sync™ system. Devices manufactured by companies other than Medtronic may also be able to interface with the Vital Sync™ system. Contact Medtronic professional services for a consultation about interfacing with third-party devices.






ADAPTERS AND CABLES

Vital Sync™ System






Information about the adapters and cables used to connect Medtronic devices to the Vital Sync™ system.

Adapter — Serial communication adapter

Cable — Interface cable for connecting the adapter to the Medtronic device

Product Type	Image	Name	WIRED WITH POWER OVER ETHERNET (POE)			WIRED WITHOUT POWER OVER ETHERNET (POE)			WIRELESS		
			Adapter	Cable(s)	Additional Power Cable	Adapter	Cable(s)	Additional Power Cable	Adapter	Cable(s)	Additional Power Cable
Ventilation		Puritan Bennett™ 840 ventilator	SGX5150213US	500-245-R (2 required)	N/A	Virtual kit: VSPB840COMKIT			Virtual kit:VSPB840COMKIT		
						SGX5150213US	500-245-R (2 required)	500-225-ACC	SGX5150213US	500-245-R (2 required)	500-225-ACC
Ventilation		Puritan Bennett™ 980 ventilator	SGX5150213US	PL2303-DB-9 500-245-R 500-242-R	N/A	Virtual kit: VSPB980COMKIT			Virtual kit: VSPB980COMKIT		
						SGX5150213US	PL2303-DB-9 500-245-R 500-242-R	930-073-R	SGX5150213US	PL2303-DB-9 500-245-R 500-242-R	
Ventilation		Newport™ HT70 ventilator	XDT10P0-01-S	10115205 140-448-R	N/A	SGX5150213US	500-242-R	500-225-ACC	SGX5150213US	500-242-R	N/A
Respiratory Function Monitor		Nellcor™ N-600X monitor	XDT10P0-01-S	049727 140-448-R	N/A	Virtual kit: VSNELLCOMKIT			Virtual kit: VSNELLCOMKIT		
						SGX5150213US	500-243-R	500-225-ACC	SGX5150213US	500-243-R	500-225-ACC
Respiratory Function Monitor		Nellcor™ N-600XA monitor	XDT10P0-01-S	049727 140-448-R	N/A	Virtual kit: VSNELLCOMKIT			Virtual kit: VSNELLCOMKIT		
						SGX5150213US	500-243-R	500-225-ACC	SGX5150213US	500-243-R	500-225-ACC

ADAPTERS AND CABLES (cont'd.)

Product Type	Image	Name	WIRED WITH POWER OVER ETHERNET (POE)			WIRED WITHOUT POWER OVER ETHERNET (POE)			WIRELESS		
			Adapter	Cable(s)	Additional Power Cable	Adapter	Cable(s)	Additional Power Cable	Adapter	Cable(s)	Additional Power Cable
Respiratory Function Monitor		Nellcor™ system NELLRESP ¹ monitor	N/A	Ethernet cable	N/A	Virtual kit: VSPM1000NWLCOMKIT			Virtual kit: VSPM1000NWLCOMKIT		
						N/A	Ethernet cable	N/A	SGX5150213US*	500-243-R	500-225-ACC
Respiratory Function Monitor		PM1000N ¹ monitor	N/A	Ethernet cable	N/A	N/A			Virtual kit: VSPM1000NWLCOMKIT		
						N/A	Ethernet cable	N/A	SGX5150213US*	500-243-R	500-225-ACC
Respiratory Function Monitor		Capnostream™ 20 monitor	XDT10P0-01-S	10115205 140-448-R	N/A	Virtual kit: VSCAPCOMKIT			Virtual kit: VSCAPCOMKIT		
						SGX5150213US	500-242-R	500-225-ACC	SGX5150213US*	500-242-R	500-225-ACC
Respiratory Function Monitor		Capnostream™ 20p monitor	XDT10P0-01-S	10115205 140-448-R	N/A	Virtual kit: VSCAPCOMKIT			Virtual kit: VSCAPCOMKIT		
						SGX5150213US	500-242-R	500-225-ACC	SGX5150213US	500-242-R	500-225-ACC
Respiratory Function Monitor		Capnostream™ 35 monitor	N/A ²			N/A ²			Internal wireless only		

1. Device has an onboard Ethernet port which calls for a standard Ethernet cable for connectivity.

2. There are no ports available for wired connections. Wireless connectivity is available onboard device.

Note: All SGX5150213US adapters come with a Level 6 Power Supply.

*Device has onboard wifi which can connect with hospital networks that use WPA/ WPA2 or PSK.

PROTOCOL PORT USE

Vital Sync™ System

Because all our devices support multiple baud rates, it's important to set the same baud rate on both the device and the adapter to ensure proper communication and performance. This table lists the device and specific destination port each protocol uses to communicate its data to the system.

DEVICE TYPE	DEVICE	PROTOCOL	DESTINATION PORT
Ventilators	Puritan Bennett™ 840 and 980 ventilators	Puritan Bennett™ vent listener SNDF	3001
Ventilators	Puritan Bennett™ 840 and 980 ventilators	Puritan Bennett™ ventilator last breath	3002
Ventilator	Newport™ HT70 ventilator	Newport™ HT70 ventilator	3050
Pulse oximeters	Nellcor™ monitors with OxiMax™ technology: N600X, N600X-A Nellcor™ bedside respiratory patient monitoring system	Nellcor™ ASCII system	3010
Pulse oximeters	Nellcor™ monitors with OxiMax™ technology: N600X, N600X-A Nellcor™ bedside respiratory patient monitoring system	Nellcor™ SHIP/SPDOut system (Clinical)	10001
Bedside capnography monitors	Capnostream™ 20 monitor Capnostream™ 20p monitor Capnostream™ 35 monitor	Oridion	3021

PROTOCOL PORT USE (cont'd.)

All devices using Ethernet or Wi-Fi require source and destination ports to establish identity and location.

This table lists the recommended source ports for each tunnel to be used to communicate data to the Vital Sync™ system.

DEVICE	TUNNEL 1 (Odd source ports)	TUNNEL 2 (Even source ports)
Nellcor™ monitors with OxiMax™ technology: N600X, N600X-A Nellcor™ bedside respiratory patient monitoring system	50001-50997	50002-50998
Puritan Bennett™ 840 / 980 ventilators	51001-51997	51002-51998
Capnostream™ monitors 20 / 20p / 35	52001-52997	52002-52998

It's recommended that each adapter be assigned a unique source port to connect to the server on which the data collection service is installed.

To maintain consistent database status, it's recommended that each logical connection be assigned a unique source port to connect to the server on which the data collection service is installed.