SecureSync Option Cards

Note: This document contains “Public Information”

Option Card	Function	UL Tested	Released	Base F000 (schematic)
1204-01	1PPS in (TTL single-ended) and (1) 1PPS out (TTL single-ended) BNC connectors (1) Freq input (TTL single-ended 1MHz, 5MHz or 10 MHz sine or square wave) BNC connector	Y	Y	1204-0010-F000
1204-02	(1) ASCII Input (RS-232) / (1) ASCII Out (RS-232) (2 DB9 connectors)	Y	Y	1204-0020-F000
1204-03	(1) 1PPS in (RS-485 differential (1) Freq input (RS-485 differential 1MHz, 5MHz or 10 MHz) (terminal block connector)	Y	Y	1204-0010-F000
1204-04	(1) ASCII Input (RS-485 differential) (1) ASCII Output (RS-485 differential)	Y	Y	1204-0020-F000
1204-05	(1) IRIG Input (TTL single-ended BNC connector) (2) IRIG Outputs (TTL single-ended BNC connectors)	Y	Y	1204-0050-F000
1204-06	Gigabit Ethernet (3 additional network connectors for Eth3, Eth2 Eth1)	Y	Y	1204-0060-F000
1204-07	Trimble Force-22 SAASM GPS receiver	NN	Y	1204-0070-F000
1204-08	(3) 5 MHz outputs (TTL single-ended BNC connectors)	Y	Y	1204-0080-F000
1204-09	(2) T1 or (2) E1 outputs only (1)1.544MHz or (1) 2.048 MHz square wave output (TTL single-ended) - 75 Ohm (3 BNC outputs) **Note**: 1.5444 MHz and T1 output capabilities started being added in Archive software version 4.8.8 (Dec 2012, ECN 3099). Previous versions support only 2.048 MHz/E1 outputs only	TBD	Y	1204-00A0-F000
1204-10	(4) Stanag / Have quick outputs (TTL single-ended BNC connectors)	Y	Y	1204-0100-F000
1204-11	(2) Stanag/havequick (non-isolated) outputs (all are selectable RS-485 or TTL levels to 10V) (1) 1PPS (non-isolated output) on a DB25 connector **Note**: This card has no inputs)		Y	1204-01D0-F000
1204-12	PTP (either Master or Slave mode) Option Card		Y	1204-00C0-F000
1204-13	(3) Programmable Frequency outputs (Sine Wave)	-	Y	1204-0130-F000
1204-14	Simulcast (CTCSS/Data Clock)		Y	1204-00C0-F000
1204-15	(4) IRIG (TTL single-ended) outputs (BNC connectors)	TBD	Y	1204-0150-F000
1204-16	(4) Programmable Square Wave Output [485]	Y	N	1204-0020-F000
1204-17	(4) Programmable TTL Square Wave outputs (BNC connectors)	Y	Y	1204-0100-F000
1204-18	(4) 1PPS outputs (BNC outputs)	Y	Y	1204-0100-F000
1204-19	(4) 1PPS 10V outputs (BNC outputs)	Y	Y	1204-0100-F000
1204-20	EBU-LTC Output (modified 1204-05)	Y	Y	1204-0050-F000
1204-21	(4) 1PPS RS-485 (differential) outputs (terminal block connector)	Y	No	1204-0020-F000
1204-22	FAA IRIG, RS485, 4 OUT, TERM BK	Y	No	1204-0020-F000
1204-23	Event Capture with broadcast [RS-232] (proposed special for one customer- China Lake)	Y	Y	1204-0020-F000
1204-24	(2) Stanag isolated inputs (1) 1PPS isolated input on a DB25 connector (**Note**: no outputs)	TBD	Y	1204-01D0-F000
1204-25	(2) Stanag/havequick isolated outputs (1) 1PPS isolated output on a DB25 connector (no inputs)	TBD	Y	1204-01D0-F000
1204-26	(3) 1MHz outputs (TTL, single-ended), (BNC connectors)	Y	N	1204-0080-F000
1204-27	(1) IRIG Fiber In / (2) IRIG Fiber out		Y	1204-0050-F000
1204-28	(1) 1PPS Input (TTL single-ended) (3) 1PPS output (TTL single-ended) (BNC connectors)	Y	N	1204-0050-F000
1204-29	(1) Stanag/Havequick input (TTL single-ended) (3) Stanag/Havequick outputs (TTL single-ended) (BNC connectors)	Y	N	1204-0100-F000
1204-30	(3) Programmable Frequency outputs (RS-485)		Y	1204-0300-F001

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1204-32	PTP Gb Option Card (PTP **output** only. See 1204-3B for PTP input)		N	1204-0320-F000
1204-34	(3) FREQ Measurement input (BNC) (original special for SPAWAR=US NAVY)			1204-0020-F000
1204-35	ASCII Time Code RS-232 Output Option Card (Special)	TBD	N	
1204-37	(3) 1PPS outputs, RS-423 levels Serial ASCII RS-423 output (original special for SPAWAR (US NAVY)			1204-0020-F000
1204-38	(3) 10 MHz outputs (TTL single-ended TNC connectors)	Y	Y	1204-0080-F001
1204-39	(4) IRIG (TTL single-ended) outputs (TNC connectors)	TBD	Y	1204-0150-F000
1204-40	100MHz LPN Option Card	TBD	Y	1204-0400-F000
1204-43	Single GNSS Reference Option Card			
1204-44	Dual GNSS Reference Option Card			
1204-45	Delay Line, Fiber Optic		Y	1204-1450-0719
1204-46	5MHZ outputs for QEWR Special (The new option card is mostly passive. It passes 4 5MHz signals from a Wenzel module to 4 BNC connectors on the rear of the card). Refer to ECO-001607 in Arena.	?	Y	1204-0460-F000
1204-48	For Les Ulis PR4G Special ??			
1204-49	Dual (2) GB Ethernet Option Card (for 2400 SecureSyncs)	TBD		1204-0490-F000
1204-50	HDB15, SWITCH SAASM x2	TBD	Y	1204-0500-F000
1204-0A	(2) DS1/E1 outputs 120 Ohm (1) 1.544 OR 2.048 MHz square wave output (Terminal Block connector)	TBD	Y	1204-00A0-F000
1204-0B	RS-485 Comm protocol (for 819x compatibility)	TBD	Y	1204-00C0-F000
1204-0D	Event, Terminal Block	-	Y	1204-00C0-F000
1204-0E	Modem (**Note**: not available at this time)	-	Y	1204-00C0-F000
1204-0F	(3) Alarm Relay outputs (Major or Minor alarms)	-	Y	1204-00C0-F000
1204-1A	GB-GRAM SAASM GPS receiver	NN	Y	1204-0070-F000
1204-1B	(4) Stanag/Havequick (differential RS-485 terminal block connector)	Y	Y	1204-0020-F000
1204-1C (1204-OC no longer available)	(3) 10 MHz outputs (TTL single-ended BNC connectors) **Note:** 1204-OC is the earlier version of this option card. The only difference between them is the earlier OC card needs three 10 MHz inputs from the base while the newer 1C only needs one 10 MHz input from the base.	Y	Y	1204-0080-F000
1204-1D	(2) Stanag non-isolated inputs (1) 1PPS non-isolated input on a DB25 connector (Note: this card has no outputs)	TBD	Y	1204-01D0-F000
1204-1E	(4) Fiber optic IRIG outputs (ST port fiber optic outputs)	-	Y	1204-0150-F000
1204-1F	Model 9483 NENA Option Card with: (1) (IRIG out, (1) RS-485 out, (1) RS-232 output **(Note:** Available with the Model 9483 only! Not available for purchase with SecureSync)	TBD	Y	1204-01F0-F000
1204-2A	Fiber Optic (1) 1PPS in (2) PPS out Option Card		Y	1204-0050-F000
1204-2B	Fiber Optic (4) 1PPS out Option Card		Y	1204-0150-F000
1204-2E	Failover (2 inputs, 1 output)		N	1204-02E0-F000
1204-2F	(3) Programmable Frequency outputs (TTL)		Y	1204-0300-F001
1204-3B	PTP Gb Option Card (PTP **input** only. See 1204-32 for PTP output)		N	
1204-3C	FAA Timestamping Module (DB15 input connector, Ethernet packet out)			
1204-3E/ 1204-3D	Satelles (STL) Option Card (**Note**: requires license file to use)			

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1204-4A	QUAD (4) 1GBE OPTION BOARD (for 2400 SecureSyncs)			1204-04A0-F000
1204-4C	4 PORT E1/T1 OUT, TERMINAL	TBD	Y	
1204-4E	OOB (5) 1GBE OPTION BOARD (for 2400 SecureSyncs)			1204-04E0-F000
1204-51	SINGLE (1) 1GBE OPTION BOARD (for 2400 SecureSyncs)			1204-0510-F000
1204-53				

NN = Not Necessary TBD = To Be Done