OnGuard® ES System

OnGuard ES Server

Recommended Specifications, Configuration 3F	
Chassis Type*	Dell Precision™ T5820 XL Tower XCTO Base 425W
CPU	Intel® Xeon® W-2104 3GHz Turbo, 4C, 5.5M Cache, HT, (120W) DDR4-2400
Operating System	Windows® 10 IoT Enterprise EMB 64Bit
RAM	8GB (1 x 8GB) 2666MHz, DDR4 RDIMM ECC
Onboard NICs	RJ45 Ethernet port
Optical Drive	16x Half Height DVD-/+RW
Operating System Drive(s)	500GB 2.5inch Serial ATA (7,200 Rpm) Hard Drive Fixed. Integrated Intel AHCI chipset SATA controller (8 x 6.0Gb/s); SW RAID 0, 1, 5, 10
Video Graphics Card	NVIDIA® NVS 315, 1GB, DMS59 (DMS59 to DVI-I Adaptor) (5820T)
Serial Port	(1) Serial Port
Ports	Front: (2) USB 3.1 Type A, (2) USB 3.1 Type C, (1) Universal Headphone Jack, Up to (2) PCIe slots in PCIe enabled chassis for M.2 PCIe SSDs; Internal: (1) USB 2.0, (1) USB 2.0 header (requires third-party splitter cable to support USB 2.0 Type A ports), (8) SATA @ 6GB/s plus (1) SATA for optical; Rear: (6) USB 3.1 Type A, (1) Serial, (1) RJ45 Network, (2) PS2, (1) Audio Line out, (1) Audio Line in/Microphone
Audio	Integrated Realtek ALC3234 High Definition Audio Codec (2 Channel)
Power	425W
Mouse/Keyboard	Wired Mouse, Black. Wired Multi-Media Keyboard English, Black
Warranty	3-year limited warranty

*Optional rack mount Configuration 4G available.

Scalability Path
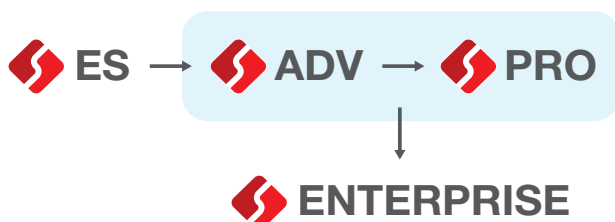
Standard Features

- First year Software Upgrade and Support Plan (SUSP) included
- Browser-based LenelS2™ Console application dashboard
- Browser-based OnGuard Users client for system administration
- Alarm Monitoring
- MapDesigner
- System Administration
- VideoViewer (video only, web)
- CCTV interface
- eMail interface
- Event logging
- Anti-Passback
- Guard tour
- Support for BlueDiamond™ mobile credentials

Browser–Based Applications

- Monitor & Credentials bundle
- Access Manager
- Surveillance
- Reports & Dashboards
- Users
- Visitor
- WATCH (Web Access Trending & Comprehensive Health)
- Cardholder Self Service
- Policies

Software (Optional)

- Visitor Self Service
- Area Access Manager
- DataConduIT™
- ID CredentialCenter
- Visitor IDVM
- Data Exchange
- FormsDesigner
- Biometrics / Smart Cards
- Fire panel support
- Intrusion panel support
- Business card / Driver's license / Military ID / Passport scanning
- Elevator integration
- Intercom
- Mustering
- Terminal services support
- Database segmentation
- Redundant Server Licensing

Carrier

OnGuard® ES System

OnGuard ES Client

OnGuard systems support up to a maximum of five (5) client workstations and five (5) OnGuard® Monitor & Credentials client bundles.

Recommended Specifications	Configuration 6K	Configuration 7H High Performance
Chassis Type	Dell OptiPlex™ 3080 Small Form Factor	Dell Precision™ XL Tower 5820 XCTO Base
CPU	Intel® Core™ i3-10100 Processor (4 CORE, 6MB, 8T, 3.6-4.3GHz, 65W)	Intel® Xeon® Processor W-2135, 3.7GHz Turbo (6C, 8.25MB Cache, HT (140W), DDR4-2666)
Operating System	Windows® 10 IoT Enterprise EMB	Windows 10 IoT Enterprise EMB
RAM	8GB (1x 8GB) DDR4 Non-ECC Memory	16GB (2 x 8GB) 2666MHz, DDR4 RDIMM ECC
Onboard NICs	RJ45 Ethernet port	RJ45 Ethernet port
Wireless NIC	-	-
Modem	-	-
Optical Drive	8x DVD+/-RW 9.5mm Optical Disk Drive	16x Half Height DVD-/+RW
Operating System Drive(s)	500GB 2.5inch Serial ATA (7,200 Rpm) Hard Drive	512GB 2.5inch Serial ATA Class 20 Hard Drive / Solid State Drive. Integrated Intel AHCI SATA chipset controller (8 x 6.0Gb/s), SW RAID 0, 1, 5, 10
Video Graphics Card	Intel Integrated Graphics, Dell OptiPlex, DisplayPort to DVI Single-Link	Radeon® Pro® WX 9100, 16GB, 6 mDP to DP adapter (XX20T)
Serial Port	-	(1) Serial Port
Ports	External: (8) USB Ports including (4) USB 3.2 Gen 1 Type-A Ports (2 front/2 rear) and (4) USB 2.0 Ports (2 front/2 rear); Internal: (1) RJ45, (1) DisplayPort; (1) HDMI; (1) Universal Audio Jack; (1) Line-out	Front: (2) USB 3.1 Type C, (2) USB 3.2 Gen 1 Type A, (1) Universal Headphone Jack. Internal: (1) USB 2.0, (1) 2x5 USB 2.0 header (requires third-party splitter cable to support 2 x USB 2.0 Type A ports), (8) SATA 6Gb/s. Rear: (6) USB 3.2 Gen 1 Type A, (2) PS2, (1) RJ45 Network, (1) Serial, (1) Audio Line out, (1) Audio Line in/Microphone
Audio	Internal speaker	Internal chassis speakers
Power	OptiPlex 3080 Small Form Factor with 200W up to 85% efficient power supply (80 Plus™ Bronze)	950W
Mouse/Keyboard	Wired Mouse, Black; Wired Multi-Media Keyboard English, Black	Wired Mouse, Black; Wired Multi-Media Keyboard English, Black
Hardware Warranty	3-year limited warranty	3-year limited warranty
Surge Suppressor	Yes	Yes

System Capacities

Category	Standard Licensing	Expansion Capability
Cardholders	Unlimited*	Unlimited*
Card Readers	32	64
Thick Client Workstations	1	5
Browser-based Monitor & Credential Bundles	1	5
Holidays / Time Zones	255 (per segment, each)	255 (per segment, each)
Alarm Inputs / Outputs	Unlimited*	Unlimited*
Access Levels	32,000 per segment	32,000 per segment
ILS Locks	-	128

*OnGuard offers scalability that is only limited by the physical limitations of your system size.

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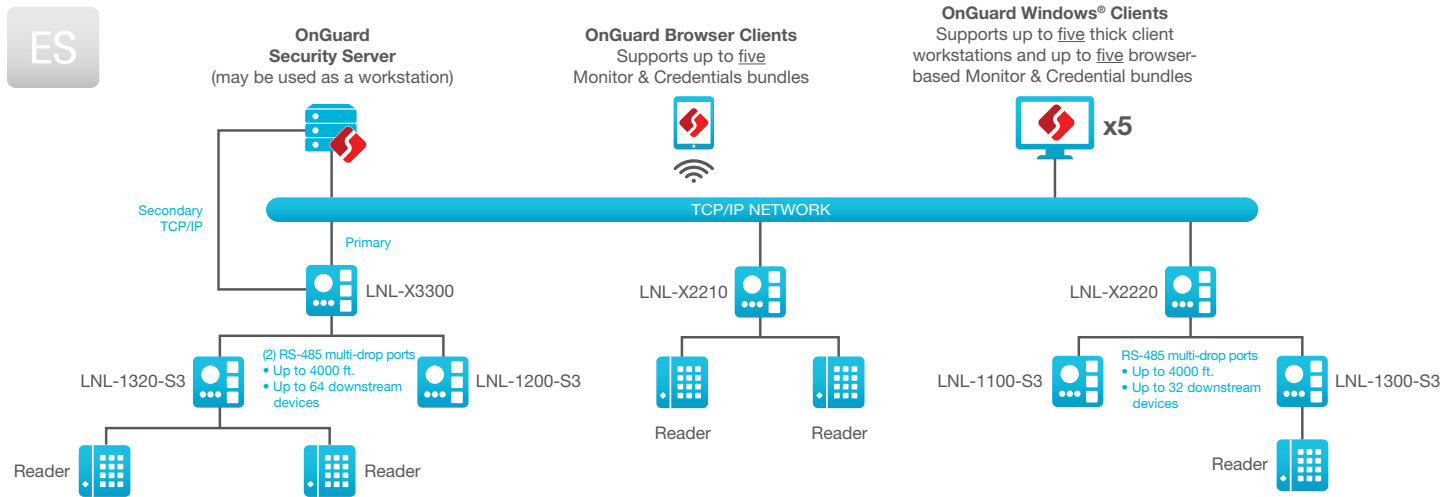
UL–Listed Enclosures and Power Supplies

LNL-CTX	Enclosure with lock and tamper switch, supports up to two (2) field hardware devices (12" x 16" x 4.5")
LNL-CTX-6	Enclosure with lock and tamper switch, supports up to six (6) field hardware devices (18" x 24" x 4.5")
LNL-AL400ULX	12VDC 4A output, 120VAC (1.6 amps) input, continuous supply current with enclosure (18" x 24" x 4.5"), lock/tamper switch, UPS capable (battery optional)
LNL-AL600ULX-4CB6	12VDC 6A output, 120VAC (1.6 amps) input, continuous supply current with enclosure (12" x 16" x 4.5"), power distribution module, lock and tamper switch, UPS capable (battery optional)

Peripheral Hardware

Direct Card Printer Support

OnGuard® supports the following printer brands: Zebra®, MAGICARD®, NISCA®, and Fargo®. Specific models support inline iCLASS®, MIFARE®, and magnetic stripe encoding.

LenelS2™ USB Image Capture Kit

Included is a high resolution CCD (NTSC or PAL) camera with software zoom capabilities, a fully-synchronized cool white built-in flash, a tripod system with a powered base, TWAIN-compliant software, a USB communication cable and a universal power cable. The camera is USB 2.0-compliant, producing high resolution live video for image capture using the OnGuard ID CredentialCenter application (any badging client or mobile badging station). The built-in flash illuminates both video fields evenly.

Client and Server Upgrades

Part #	Path
Client Upgrade	
UPC-32ADV	32ES to ADV
UPC-32ADVI	32ESI to ADVI
UPC-IDESIDADV	IDES to IDADV
Server Upgrade	
UPS-3264	SWS-32ES to SWS-ADV*
UPS-3264I	SWS-32ESI to SWS-ADVI*

*Automatically increases reader count