

## THE ALL-IN-ONE SOLUTION FOR VIRTUAL DESKTOP



### FULL-FEATURED COMPUTER PROCESSOR AND KVM EXTENDER IN ONE SPACE-SAVING MODULE

Create more secure, productive and higher-performance VDI and cloud infrastructures using Thinklogical's all-in-one VDI desktop client and KVM transmitter. Efficiently back-rack your VDI desktop clients and high end graphic computers in IT machine data rooms while providing flexible and secure user access through Thinklogical's high-performance fiber-optic extension and switching systems.

The Integrated Client Transmitter module is a full-featured virtual machine processor combined with a high-performance KVM extender transmitter, eliminating the need for a separate client device in extended VDI installations. The module's processor can act as a zero client, thin client, or full-featured "fat client" PC and can host any supported VDI client software or PC operating system including those produced by VMware®, Citrix®, Microsoft® and others. It is also compatible with many third-party accredited software images.

The small-footprint Integrated Client Transmitter module simplifies VDI and cloud infrastructures and reduces cost by eliminating the need to purchase separate desktop clients and KVM transmitters and optimizing the network topology. This reduces hardware and cabling complexity and expense, and saves a minimum of 50% of the rack space previously required in typical configurations -- even more in certain applications. The module also increases data security by removing the client device, cables, and network and USB ports from the workspace. And it allows you to more easily pool IT resources for reduced hardware and software licensing costs.

Thinklogical's patented high-bandwidth and uncompressed KVM extension and switching architecture delivers low-latency system performance identical to if the user was connected directly to the desktop client. Simplify your VDI applications and save costs with the Integrated Client Transmitter.

### BENEFITS

#### Enhanced Security

- Mitigate insider threat by removing client, network and USB 2.0 ports from desk
- Part of IA-accredited multi-classification solution (EAL4, TEMPEST, NATO NIAPC, JITC UCR APL)
- Hardware designed to maximize security functions
- Compatible with security-based client software
- Reduced requirements for security patching

#### High Performance

- No signal compression, resulting in no added latency or video artifacts, jitter or dropped frames

#### Easier Integration and Cost Savings

- Save valuable space at the desktop and rack
- Reduce IT clutter and cabling; use less power, remove heat and noise
- Lower hardware and software licensing costs by pooling

#### Increased Flexibility and Reliability

- Instantly switch between networks or classification levels
- Easily incorporate CAC for multi-classification application access
- Modular, high-density design maximizes space utilization and uptime
- Supports all common virtualization software and desktop operating systems: VMware, Citrix, Microsoft

### FEATURES

- Copper or Fiber 1GbE network connection from VDI server to Integrated Client Transmitter module
- Fiber connection to Thinklogical matrix switch or KVM receiver
- Compatible with Thinklogical Velocity and TLX Series KVM products
- Supports HDMI 2.0, single or dual head systems and resolutions up to 3840 x 2160 @ 30Hz
- Digital audio (can be extracted to analog at receiver)
- Supports analog audio (mic/line)
- Redundant, current-sharing, hot-swappable power supplies
- Optional separate USB 2.0 data path at 480MB available for CAC applications
- Intel Processor i5 – 2.4GHz/3GHz (Turbo Mode), Dual Core, 4 Threads, 3MB Cache, Intel HD Graphics 520, 4GB RAM – DDR4-2133, 2 Memory Channels, Bandwidth 34.1Gbps
- Intel Processor i7 – 2.8GHz/3.9GHz (Turbo Mode), Dual Core, 4 Threads, 4MB Cache, Intel HD Graphics 620, 8GB RAM – DDR4-2133, 2 Memory Channels, Bandwidth 34.1Gbps
- Field replaceable 128GB solid state drive
- Chassis supports up to four modules per single RU
- Certified to TEMPEST SDIP 27 Level B

**EXAMPLE PART NUMBERS**

**ICT-XMF-H01A10:** Integrated Client Multi-Mode Transmitter with Fiber Network, Support for TLX, Single Head up to 4K30, Analog Audio, USB HID

**ICT-XMF-C01A22:** Integrated Client Multi-Mode Transmitter with Fiber Network, Support for TLX, Dual Head up to 4K30, Analog Audio, USB HID, Separate USB 2.0

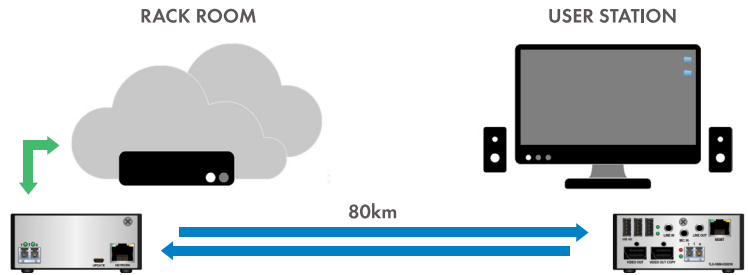
**ICT-VSC-U01A22:** Integrated Client Single-Mode Transmitter with Copper Network, Support for VEL, Dual Head up to 4K30, Analog Audio, USB HID & USB 2.0

**ICT-XMF-H02A10:** TLX10 ICT Multi-Mode Module, Single Video Head up to 3840x2160@30Hz, Analog Audio & USB HID, Fiber Network

**ICT-XMF-H02A22:** TLX22 ICT Multi-Mode Module, Dual Video Heads up to 3840x2160@30Hz, Analog Audio & USB HID, Fiber Network

**ICT-VMC-C02A22:** VEL22 ICT Multi-Mode Module, Dual Video Heads up to 1080p, Analog Audio, USB HID & Separate USB 2.0, Copper Network

*Please contact Thinklogical for configurations specific to your application requirements.*



**TLX HP4 CHASSIS FOR INTEGRATED CLIENT TRANSMITTER MODULE**



Save Valuable Rack Space. The high-density HP4 chassis is designed to accommodate the Integrated Client Transmitter virtual desktop module and can help you save a minimum of 50% of rack space vs. typical extended VDI configurations. The 1RU, modular design is configurable with up to four Integrated Client Transmitter modules. Chassis offers redundant, current-sharing and hot-swappable internal power supplies.

TECHNICAL SPECIFICATIONS		
<b>CHASSIS</b> CHS-HP0004	<b>Rack Size:</b> EIA 19" (482.6 mm) <b>Height:</b> 1 RU-1.72" (43.7 mm) <b>Depth:</b> 17.00" (431.8 mm), including PS handles: 17.75" (450.8 mm) <b>Width:</b> 17.49" (444 mm)	<b>Tolerance:</b> ± .039"; (.991 mm) <b>Weight (Chassis only):</b> 9.0 lbs. (4.08 kg) <b>Shipping Weight:</b> 11 lbs. (4.99 kg) <b>Weight (Chassis &amp; 4 Modules):</b> 13.8.0 lbs. (6.26 kg) <b>Shipping Weight:</b> 15 lbs. (6.80 kg)
<b>CHASSIS STATUS LEDS</b>	Module Temp (1-4), Module Status (1-4), Chassis Fans, Chassis Alarm, Power Supplies 1-2	
<b>INTEGRATED CLIENT TRANSMITTER</b>	<b>Height:</b> 1.59" (40.4 mm) <b>Depth:</b> 10.34" (262.6 mm) <b>Width:</b> 6.37" (161.7 mm)	<b>Tolerance:</b> ± .039"; (.991 mm) <b>Weight (1 ICT module):</b> 1.2 lbs. (.54 kg) <b>Shipping Weight:</b> 2 lbs. (.91 kg)
<b>PROCESSORS</b>	Intel Processor i5 – 2.4GHz/3GHz (Turbo Mode), Dual Core, 4 Threads, 3MB Cache, Intel HD Graphics 520, 4GB RAM – DDR4-2133, 2 Memory Channels, Bandwidth 34.1Gbps Intel Processor i7 – 2.8GHz/3.9GHz (Turbo Mode), Dual Core, 4 Threads, 4MB Cache, Intel HD Graphics 620, 8GB RAM – DDR4-2133, 2 Memory Channels, Bandwidth 34.1Gbps	
<b>MEMORY</b>	4GB RAM – DDR4-2133, 2 Memory Channels, Bandwidth 34.1Gbps	
<b>INTERFACES</b>	1 Serial Console, 2 USB-A, 1 HDMI Video Out, 3 fiber SFPs, 1 RJ-45 or fiber Network, 1 USB-mini-B Update	
<b>OPERATING TEMPERATURE AND HUMIDITY</b>	0° to 50°C (32° to 122 °F), 5% to 95% RH, non-condensing; side to side cooling	
<b>POWER REQUIREMENTS</b>	AC Input: 100-240VAC, 47-63Hz Universal AC Power Supply	
<b>POWER CONSUMPTION</b>	200 Watts max. when fully populated	
<b>COMPLIANCE</b>	Approvals for US, Canada, and European Union; CE + ROHS	
<b>WARRANTY</b>	1 Year from date of shipment. Extended warranties available.	