



Enyx IP Cores latency

| Product | Family | PHY Speed | Freq (Mhz) | TCP/IP or UDP/IP | | MAC | | PCS | | PMA | | TOTAL | | |
|-------------------------|-----------|-----------|------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------------|---------------|------------|
| | | | | TX (ns) | RX (ns) | TX (ns) | RX (ns) | TX (ns) | RX (ns) | TX (ns) | RX (ns) | TX (ns) | RX (ns) | TX+RX (ns) |
| nxTCP Standard Edition | Stratix V | 10 Gbps | 156.25 | 198.4 | 147.2 | 25.6 | 25.6 | 51.2 | 96 | 9.70 | 3.39 | 284.90 | 272.19 | 557.09 |
| nxTCP Financial Edition | Stratix V | 10 Gbps | 200 | 155 | 124.5 | 20 | 20 | 18.624 | 37.248 | 9.70 | 3.39 | 203.32 | 185.09 | 388.41 |
| nxTCP Financial Edition | Stratix V | 10 Gbps | 250 | 112 | 108.2 | 16 | 16 | 18.624 | 37.248 | 9.70 | 3.39 | 156.32 | 164.84 | 321.16 |
| nxMAC + nxPCS | Stratix V | 10 Gbps | 250 | | | 16 | 16 | 18.624 | 37.248 | 9.70 | 3.39 | 44.32 | 56.64 | 100.96 |
| nxUDP Standard Edition | Stratix V | 10 Gbps | 156.25 | 96 | 147.2 | 25.6 | 25.6 | 51.2 | 96 | 9.70 | 3.39 | 182.50 | 272.19 | 454.69 |
| nxUDP Financial Edition | Stratix V | 10 Gbps | 200 | 75 | 115 | 20 | 20 | 18.624 | 37.248 | 9.70 | 3.39 | 123.32 | 175.64 | 298.96 |
| nxUDP Financial Edition | Stratix V | 10 Gbps | 250 | 60 | 92 | 16 | 16 | 18.624 | 37.248 | 9.70 | 3.39 | 104.32 | 148.64 | 252.96 |

| Product | Family | PHY Speed | Freq (Mhz) | TCP/IP or UDP/IP | | MAC | | Integrated transc. | | External PHY | | TOTAL | | |
|------------------------|------------|-----------|------------|------------------|---------|---------|---------|--------------------|---------|--------------|---------|---------------|---------------|------------|
| | | | | TX (ns) | RX (ns) | TX (ns) | RX (ns) | TX (ns) | RX (ns) | TX (ns) | RX (ns) | TX (ns) | RX (ns) | TX+RX (ns) |
| nxTCP Standard Edition | Stratix IV | 10 Gbps | 156.25 | 198.4 | 147.2 | 25.6 | 25.6 | 109 | 160 | 227.00 | 227.00 | 560.00 | 559.80 | 1119.80 |
| nxUDP Standard Edition | Stratix IV | 10 Gbps | 156.25 | 96 | 147.2 | 25.6 | 25.6 | 109 | 160 | 227.00 | 227.00 | 457.60 | 559.80 | 1017.40 |

Notes

- Latency is measured from Start-of-Packet (SoP) to SoP.
- TX latency is for a 1-byte payload.