



## 關於 Riverbed

Riverbed 公司成立於 2002 年，其目標是透過解決廣域網路 (WAN) 延遲和頻寬的限制問題，消除遠端使用者，使用應用程式時的距離和位置限制因素。因為應用程式和資料透過廣域網路傳輸需要時間（延遲），還會產生成本（頻寬）。距離越遠，所涉及位置越多，應用程式連線速度越慢，成本越高。結果是，透過廣域網路運作的應用程式通常速度緩慢、成本高昂，對許多行業來說根本不可能達成遠端存取應用。為消除阻礙應用程式效能和企業效率的問題，Riverbed 公司創始人發明了一種解決網路資料傳輸的新方法，包括終端分層代理（取代快取）、革命性的資料去重複演算法以及作業模式預測和應用程式傳輸精簡等創新技術。

Riverbed 推出的 Steelhead 產品是世界上第一個廣域網路傳輸最佳化解決方案，使應用頻寬要求降低高達 95%，使應用程式效能提高 100 倍。如今的 Riverbed 公司並沒有止步於廣域網路傳輸最佳化。其實，我們的願景幫助企業在過渡到混合雲和混合網路架構時，實現最佳應用程式效能，最大化員工生產力和 IT 的運作靈活性，從而獲得競爭優勢。

從應用的角度來看，借助 Riverbed 方案，更多的企業使用者可以透過任何網路向任何終端提供各種公有雲、私有雲或混合雲的應用、資料及服務。今天的 Riverbed 方案包括以下三個大類：

### **Riverbed SteelHead**

是業界領先的解決方案，可加速傳遞混合廣域網路中的應用程式，透過克服廣域網路頻寬限制和延遲的雙重挑戰來加速雲端應用效能，讓使用者無論身在何處，都可提高其終端使用者體驗。

### **Riverbed SteelConnect**

是一種 SD-WAN (軟體定義廣域網路) 解決方案，提供廣域網路傳輸最佳化功能與混合 WAN 網路 (MPLS 和 Internet) 架構，另可與 SaaS 結合，減少延遲並將企業 SaaS 應用程序 (包括 Microsoft Office 365, Salesforce, ServiceNow, Box 等) 的頻寬降低多達 99%，將 SaaS 性能提高多達 33 倍。

### **Riverbed SteelCentral**

是一個完整的性能管理平台和控制套件，提供涵蓋使用者體驗，應用程式和網路效能所有層面的統一視覺化。透過 Network Performance Management (NPM) 解決方案可以輕鬆地監視與故障排除並快速主動地解決任何基於網路的效能問題。無論是推展新的應用程式、整合或虛擬化資料中心、雲端遷移、故障排除與能見度解決方案，SteelCentral 產品都能夠讓企業全面瞭解自己的網路環境。

## Riverbed Steelhead CX 硬體規格簡表

型號	CX580	CX780	CX3080	CX5080	CX7080
外觀	桌上型		1U	2U	
TCP/UDP/ SSL/TLS 連線處理能力	2,500	5,500	14,000	20,000- 60,000	100,000- 220,000
可最佳化頻寬	50 Mbps	100 Mbps	200 Mbps	300 Mbps - 622 Mbps	1,000 Mbps - 3,000 Mbps
Web Proxy Cache 效能	150 GB	250 GB	300 GB	500 GB	
適用場景	分支機構及中型辦公環境			大型分支機構或資料中心	

## Riverbed SteelHead CX for Virtual 規格簡表

型號	VCX-10	VCX-20	VCX-30	VCX-40	VCX-50	VCX-60
可最佳化頻寬	2 Mbps	5 Mbps	10 Mbps	20 Mbps	50 Mbps	100 Mbps
TCP/UDP 處理能力	50	200	500	1,000	2,000	5,000
建議硬碟空間 (GB)	70	100	120	176	438	438
最大儲存容量 (GB)	50	80	100	150	400	400
Web Proxy Cache 效能	200 GB	200 GB	400 GB	400 GB	800 GB	800 GB
Virtual CPUs Required (min)	1	1	2	4	4	4
Reserved Memory Required	2 GB	2 GB	2 GB	4 GB	8 GB	8 GB
適用平台	vSphere, Hyper-V, KVM					

型號	VCX-70	VCX-80	VCX-90	VCX-100	VCX-110
可最佳化頻寬	200 Mbps	500 Mbps	1,000 Mbps	2.5 Gbps	5 Gbps
TCP/UDP 處理能力	12,000	50,000	100,000	150,000	180,000
建議硬碟空間 (GB)	870	1,686	2,358	3,760	5,100
最大儲存容量 (GB)	800	1,600	2,240	3,600	4,800
Web Proxy Cache 效能	800 GB	800 GB	800 GB	800 GB	800 GB
Virtual CPUs Required (min)	6	12	24	32	44
Reserved Memory Required	24 GB	32 GB	48 GB	64 GB	128 GB
適用平台	vSphere, Hyper-V, KVM				

\* 連線處理能力及可最佳化頻寬，需搭配原廠公布之對應軟體或硬體需求，上表規格記載內容，以原廠公布為準。

## SteelHead CX 系列產品

PART NUMBER	DESCRIPTION
<b>CXA-00580 Model</b>	
CXA-00580-B110	Steelhead RiOS CXA 00580 B110
LIC-CXA-00580-T1	License Steelhead CXA 580 Essentials
LIC-CXA-00580-T2	License Steelhead CXA 580 Standard
LIC-CXA-00580-T3	License Steelhead CXA 580 Enterprise
<b>CXA-00780 Model</b>	
CXA-00780-B110	Steelhead RiOS CXA 00780 B110
LIC-CXA-00780-T1	License Steelhead CXA 780 Essentials
LIC-CXA-00780-T2	License Steelhead CXA 780 Standard
LIC-CXA-00780-T3	License Steelhead CXA 780 Enterprise
<b>CXA-03080 Model</b>	
CXA-03080-B110	CXA 3080 B110 with RiOS, BMC Module
LIC-CXA-03080-T1	License Steelhead CXA 03080 Essentials
LIC-CXA-03080-T2	License Steelhead CXA 03080 Standard
LIC-CXA-03080-T3	License Steelhead CXA 03080 Enterprise
<b>CXA-05080 Model</b>	
CXA-05080-B010	Steelhead CXA-05080-B010 with RiOS
LIC-CXA-L25	License Steelhead CXA-L25 (300Mbps, 20K conn) for: CXA-05080-B010
LIC-CXA-L26	License Steelhead CXA-L26 (622Mbps, 60K conn) for: CXA-05080-B010
<b>CXA-05080 License Upgrades</b>	
UPG-CXA-L25-L26	Upgrade LIC-CXA-L25 to LIC-CXA-L26. For: CXA-5080-B010
<b>CXA-07080 Model</b>	
CXA-07080-B010	Steelhead CXA-07080-B010 with RiOS
CXA-07080-B020	Steelhead CXA-07080-B020 with RiOS
LIC-CXA-L30	License Steelhead CXA-L30 (1000Mbps, 100K conn) for: CXA-07080-B010
LIC-CXA-L32	License Steelhead CXA-L32 (3000Mbps, 220K conn) for: CXA-07080-B030
<b>CXA-07080 License Upgrades</b>	
UPC-CXA-07080	Upgrade charge- also requires purchase of higher model and return of lower model (via sales ops). For: CXA-7080-B010, CXA-7080-B020

## SteelHead CX for Virtual 系列產品

PART NUMBER	DESCRIPTION
<b>SteelHead CX for Virtual</b>	
VCX-010	Perpetual License for Virtual Steelhead VCX-10 (2 Mbps, 50 conn)
VCX-020	Perpetual License for Virtual Steelhead VCX-20 (5Mbps, 200 conn)
VCX-030	Perpetual License for Virtual Steelhead VCX-30 (10 Mbps, 500 conn)
VCX-040	Perpetual License for Virtual Steelhead VCX-40 (20 Mbps, 1000 conn)
VCX-050	Perpetual License for Virtual Steelhead VCX-50 (50 Mbps, 2000 conn)
VCX-060	Perpetual License for Virtual Steelhead VCX-60 (100 Mbps, 5K conn)
VCX-070	Perpetual License for Virtual Steelhead VCX-70 (200 Mbps, 12K conn)
VCX-080	Perpetual License for Virtual Steelhead VCX-80 (500 Mbps, 50K conn)
VCX-090	Perpetual License for Virtual Steelhead VCX-90 (1 Gbps, 100K conn)
VCX-100	Perpetual License for Virtual Steelhead VCX-100 (2.5 Gbps, 150K conn)
VCX-110	Perpetual License for Virtual Steelhead VCX-110 (5 Gbps, 180K conn)

## Riverbed SteelConnect EX 硬體規格簡表

型號	EX385	EX485	EX685	EX580	EX780	EX3080
外觀	桌上型					1U
Routing 效能	400 Mbps	2.5 Gbps	3.75 Gbps	3 Gbps	9 Gbps	10 Gbps
SD-WAN 效能	250 Mbps	1.35 Gbps	2.8 Gbps	2.45 Gbps	6 Gbps	8.4 Gbps
硬碟儲存容量	32 GB SSD	64 GB SSD	128 GB SSD	200 GB SSD	200 GB SSD	400 GB SSD
WAN 優化 (加速)	No	No	No	No	Yes	Yes
介面數量	4 埠 1G Copper + 2 埠 1G SFP			8 埠 1G Copper + 2 埠 10G SFP+	8 埠 1G Copper + 2 埠 10G SFP+	8 埠 1G Copper + 4 埠 10G SFP+
Wireless	Dual band 802.11ac, 512 clients, 16 SSIDs			n/a	n/a	n/a
網路擴充模組	n/a	n/a	n/a	n/a	n/a	1
雙電源	No	No	No	No	No	Yes
適用場景	分支機構或小型辦公環境				中大型辦公環境	

## SteelHead CX for Virtual 系列產品

PART NUMBER	DESCRIPTION
SDEX-00385-B040	APAC Small Branch w/LTE, WiFi AP
SDEX-00485-B040	APAC Medium Branch w/LTE, WiFi AP
SDEX-00685-B040	APAC Large Branch w/LTE, WiFi AP
SDEX-00580-B010	Small Branch SD-WAN Platform
SDEX-00780-B010	Medium Branch SD-WAN Platform with optional Application Acceleration support
SDEX-03080-B010	Large Branch or Hub/Aggregation SD-WAN Platform with optional Application Acceleration support - Can also be used to run the FlexVNF software configured as a controller for up to 500 CPEs and 100 Tenants
<b>Essentials Licenses</b>	
SEC-SDW-ESSENTIALS-10M	Models: SDEX-385, SDEX-485, SDEX-685, SDEX-580. Secure SD-WAN Essentials For 10 Mbps bandwidth
SEC-SDW-ESSENTIALS-25M	Models: SDEX-385, SDEX-485, SDEX-685, SDEX-580. Secure SD-WAN Essentials For 25 Mbps bandwidth
SEC-SDW-ESSENTIALS-50M	Models: SDEX-385, SDEX-485, SDEX-685, SDEX-580. Secure SD-WAN Essentials For 50 Mbps bandwidth
SEC-SDW-ESSENTIALS-100M	Models: SDEX-385, SDEX-485, SDEX-685, SDEX-580. Secure SD-WAN Essentials For 100 Mbps bandwidth
SEC-SDW-ESSENTIALS-200M	Models: SDEX-385, SDEX-485, SDEX-685, SDEX-580, SDEX-780. Secure SD-WAN Essentials For 200 Mbps bandwidth
SEC-SDW-ESSENTIALS-500M	Models: SDEX-485, SDEX-685, SDEX-580, SDEX-780. Secure SD-WAN Essentials For 500 Mbps bandwidth

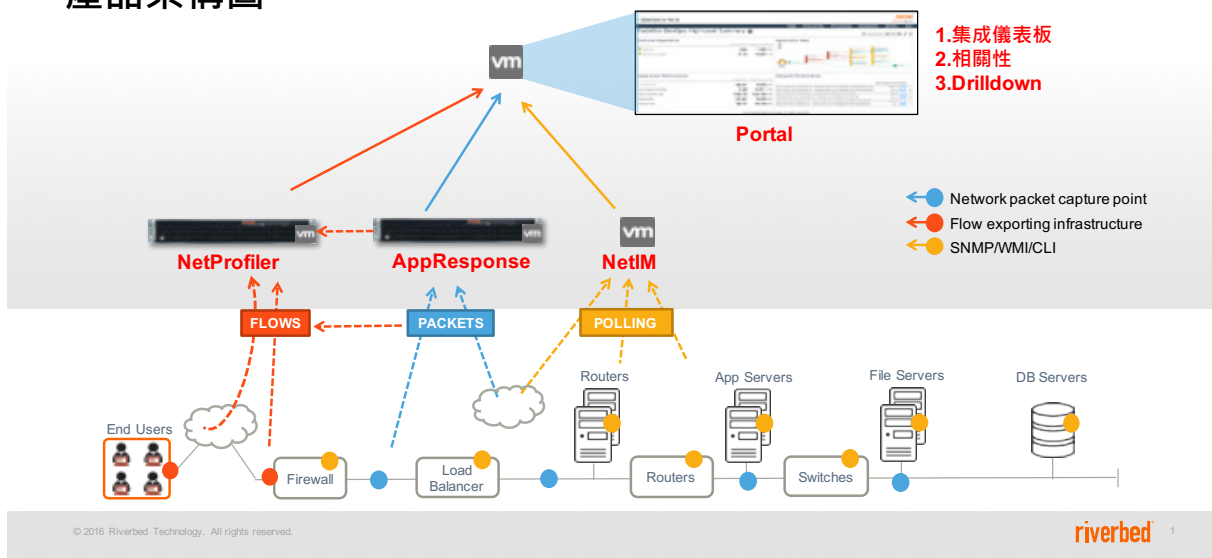
## SteelHead CX for Virtual 系列產品

PART NUMBER	DESCRIPTION
SEC-SDW-ESSENTIALS-1G	Models: SDEX-485, SDEX-685, SDEX-580, SDEX-780, SDEX-3080. Secure SD-WAN Essentials For 1 Gbps bandwidth
SEC-SDW-ESSENTIALS-2G	Models: SDEX-685, SDEX-580, SDEX-780, SDEX-3080. Secure SD-WAN Essentials For 2 Gbps bandwidth
SEC-SDW-ESSENTIALS-5G	Models: SDEX-780, SDEX-3080. Secure SD-WAN Essentials For 5 Gbps bandwidth
SEC-SDW-ESSENTIALS-10G	Models: SDEX-3080. Secure SD-WAN Essentials For 10 Gbps bandwidth
<b>Standard Licenses</b>	
SEC-SDW-STANDARD-10M	Models: SDEX-385, SDEX-485, SDEX-685, SDEX-580. Secure SD-WAN Standard For 10 Mbps bandwidth
SEC-SDW-STANDARD-25M	Models: SDEX-385, SDEX-485, SDEX-685, SDEX-580. Secure SD-WAN Standard For 25 Mbps bandwidth
SEC-SDW-STANDARD-50M	Models: SDEX-385, SDEX-485, SDEX-685, SDEX-580. Secure SD-WAN Standard For 50 Mbps bandwidth
SEC-SDW-STANDARD-100M	Models: SDEX-385, SDEX-485, SDEX-685, SDEX-580. Secure SD-WAN Standard For 100 Mbps bandwidth
SEC-SDW-STANDARD-200M	Models: SDEX-385, SDEX-485, SDEX-685, SDEX-580, SDEX-780. Secure SD-WAN Standard For 200 Mbps bandwidth
SEC-SDW-STANDARD-500M	Models: SDEX-485, SDEX-685, SDEX-580, SDEX-780. Secure SD-WAN Standard For 500 Mbps bandwidth
SEC-SDW-STANDARD-1G	Models: SDEX-485, SDEX-685, SDEX-580, SDEX-780, SDEX-3080. Secure SD-WAN Standard For 1 Gbps bandwidth
SEC-SDW-STANDARD-2G	Models: SDEX-685, SDEX-580, SDEX-780, SDEX-3080. Secure SD-WAN Standard For 2 Gbps bandwidth
SEC-SDW-STANDARD-5G	Models: SDEX-780, SDEX-3080. Secure SD-WAN Standard For 5 Gbps bandwidth
SEC-SDW-STANDARD-10G	Models: SDEX-3080. Secure SD-WAN Standard For 10 Gbps bandwidth
<b>Advanced Licenses</b>	
SEC-SDW-ADVANCED-10M	Models: SDEX-385, SDEX-485, SDEX-685, SDEX-580. Secure SD-WAN Advanced For 10 Mbps bandwidth
SEC-SDW-ADVANCED-25M	Models: SDEX-385, SDEX-485, SDEX-685, SDEX-580. Secure SD-WAN Advanced For 25 Mbps bandwidth
SEC-SDW-ADVANCED-50M	Models: SDEX-385, SDEX-485, SDEX-685, SDEX-580. Secure SD-WAN Advanced For 50 Mbps bandwidth
SEC-SDW-ADVANCED-100M	Models: SDEX-385, SDEX-485, SDEX-685, SDEX-580. Secure SD-WAN Advanced For 100 Mbps bandwidth
SEC-SDW-ADVANCED-200M	Models: SDEX-385, SDEX-485, SDEX-685, SDEX-580, SDEX-780. Secure SD-WAN Advanced For 200 Mbps bandwidth
SEC-SDW-ADVANCED-500M	Models: SDEX-485, SDEX-685, SDEX-580, SDEX-780. Secure SD-WAN Advanced For 500 Mbps bandwidth
SEC-SDW-ADVANCED-1G	Models: SDEX-485, SDEX-685, SDEX-580, SDEX-780, SDEX-3080. Secure SD-WAN Advanced For 1 Gbps bandwidth
SEC-SDW-ADVANCED-2G	Models: SDEX-685, SDEX-580, SDEX-780, SDEX-3080. Secure SD-WAN Advanced For 2 Gbps bandwidth
SEC-SDW-ADVANCED-5G	Models: SDEX-780, SDEX-3080. Secure SD-WAN Advanced For 5 Gbps bandwidth
SEC-SDW-ADVANCED-10G	Models: SDEX-3080. Secure SD-WAN Advanced For 10 Gbps bandwidth

## Riverbed Network Performance Monitor(NPM)

Riverbed 網路效能管理解決方案能夠在企業的業務受到影響之前為企業提醒問題的存在，幫助企業瞭解應用程式和網路之間的依賴關係，以及改善故障排除。透過這種綜合的方法，企業可以瞭解網路對於應用程式效能的重要影響。

### Riverbed NPM 產品架構圖



## SteelCentral AppResponse

PART NUMBER	DESCRIPTION
<b>SCAN-02180</b>	
SCAN-02180-B010-C	SteelCentral AppResponse Model 2180 Configured
LIC-SCAN-02180	SteelCentral AppResponse Model 2180 License
LIC-SCAN-ASA-SM	SteelCentral AppResponse 11 Application Stream Analysis Module, small appliances
LIC-SCAN-WTA-SM	SteelCentral AppResponse 11 Web Transaction Analysis Module, small appliances
LIC-SCAN-DBA-SM	SteelCentral AppResponse 11 Database Analysis Module, small appliances
LIC-SCAN-UCA-SM	SteelCentral AppResponse 11 VoIP/Video Unified Communications Analysis Module, small appliances
<b>SCAN-04180</b>	
SCAN-04180-B010-C	SteelCentral AppResponse Model 4180 Configured
LIC-SCAN-04180	SteelCentral AppResponse Model 4180 License
LIC-SCAN-ASA-MD	SteelCentral AppResponse 11 Application Stream Analysis Module, mid-range appliances
LIC-SCAN-WTA-MD	SteelCentral AppResponse 11 Web Transaction Analysis Module, mid-range appliances
LIC-SCAN-DBA-MD	SteelCentral AppResponse 11 Database Analysis Module, mid-range appliances
LIC-SCAN-UCA-MD	SteelCentral AppResponse 11 VoIP/Video Unified Communications Analysis Module, mid-range appliances

## SteelCentral AppResponse

PART NUMBER	DESCRIPTION
<b>SCAN-08180</b>	
SCAN-08180-B010-C	SteelCentral AppResponse Model 8180 Configured
LIC-SCAN-08180	SteelCentral AppResponse Model 8180 License
LIC-SCAN-08180-P	SteelCentral AppResponse Model 8180 Plus License
SCAN-SU-4	SteelCentral AppResponse Storage Unit, 48TB raw capacity (for use with xx80 only)
SCAN-SU-10	SteelCentral AppResponse Storage Unit, 120TB raw capacity (for use with xx80 only)
LIC-SCAN-ASA-XL	SteelCentral AppResponse 11 Application Stream Analysis Module, extra-large appliances
LIC-SCAN-WTA-XL	SteelCentral AppResponse 11 Web Transaction Analysis Module, extra-large appliances
LIC-SCAN-DBA-XL	SteelCentral AppResponse 11 Database Analysis Module, extra-large appliances
LIC-SCAN-UCA-XL	SteelCentral AppResponse 11 VoIP/Video Unified Communications Analysis Module, extra-large appliances
<b>卡版與配件</b>	
NIC-1-001G-4SFP-C	Quad 1 GbE Fiber SFP for SCAN-02180/SCAN-04180/SCAN-08180
NIC-1-001G-4TX-C	Quad 1 GbE Copper Base-T. Does not require SFP's for
NIC-1-010G-2SFPP-C	Dual 10 GbE Fiber SFP+ for SCAN-02180/SCAN-04180/SCAN-08180
NIC-1-010G-4SFPP-C	Quad 10 GbE Fiber SFP+ for SCAN-04180/SCAN-08180
NIC-1-040G-2QSFP-TS-C	Dual 40 GbE Fiber QSFP, precision timestamp capability for SCAN-08180
NIC-1-100G-2QSFP-TS-C	Dual 100 GbE Fiber QSFP, precision timestamp capability for SCAN-08180
TRC-1-SFP-SX-C	SFP - 1GbE SX
TRC-1-SFP-LX-C	SFP - 1GbE LX
TRC-1-SFPP-SR-C	SFP+ - 10GbE SR
TRC-1-SFPP-LR-C	SFP+ - 10GbE LR
TRC-1-QSFP-SR-C	QSFP - 40GbE SR
TRC-1-QSFP-LR-C	QSFP - 40GbE LR
TRC-1-QSFP28-SR4-C	QSFP 100GbE SR
TRC-1-QSFP28-LR4-C	QSFP 100GbE LR
<b>SteelCentral Packet Analyzer Plus</b>	
PAP-LIC-USR-1	SteelCentral Packet Analyzer Plus 1 User for AppResponse 11

## SteelCentral AppResponse Virtual Model

PART NUMBER	DESCRIPTION
<b>SteelCentral AppResponse Virtual Edition</b>	
VSCAN-00100	SteelCentral AppResponse 11 100v - 100 GB Disk
VSCAN-00500	SteelCentral AppResponse 11 500v - 2 TB Disk
VSCAN-02000	SteelCentral AppResponse 11 2000v - 8 TB Disk
VSCAN-FLOW	SteelCentral AppResponse 11 vFlow - Flow export only

## SteelCentral NetProfiler

PART NUMBER	DESCRIPTION
<b>SCNP-04280</b>	
SCNP-04280-B010	SteelCentral NetProfiler Model 4280
LIC-SCNP-04280-100K	SteelCentral NetProfiler 4280 100K FPM License
LIC-SCNP-04280-ASM-100K	SteelCentral NetProfiler 4280 ASM 100K FPM License
<b>SCNP-04280-EX</b>	
SCNP-04280-EXP-B010	SteelCentral NetProfiler Model 4280 Expansion Module
<b>SCNP-04280-DP</b>	
SCNP-04280-DP-B010	SteelCentral NetProfiler Model 4280 Dispatch Module
LIC-SCNP-04280-DP	SteelCentral NetProfiler Model 4280 Dispatch Module License

## SteelCentral NetProfiler Virtual Model

PART NUMBER	DESCRIPTION
<b>SteelCentral NetProfiler Virtual Edition</b>	
SCNP-VE-BASE	NetProfiler Virtual Edition
LIC-SCNP-VE-10K	SteelCentral NetProfiler Virtual Edition 10K FPM License
LIC-SCNP-VE-100K	SteelCentral NetProfiler Virtual Edition 100K FPM License
LIC-SCNP-VE-ASM-10K	SteelCentral NetProfiler Virtual Edition ASM 10K FPM License
LIC-SCNP-VE-ASM-100K	SteelCentral NetProfiler Virtual Edition ASM 100K FPM License
LIC-SCNP-VE-EXP	SteelCentral NetProfiler Virtual Edition Expansion Module License
LIC-SCNP-VE-DP	NetProfiler Virtual Edition Dispatch Module License

## SteelCentral Flow Gateway

PART NUMBER	DESCRIPTION
<b>SCFG-02280</b>	
SCFG-02280-B010	SteelCentral Flow Gateway Model 2280
LIC-SCFG-02280-100K	SteelCentral Flow Gateway License for 100K FPM

## SteelCentral Flow Gateway Virtual Model

PART NUMBER	DESCRIPTION
<b>SCFG-02280</b>	
SCFG-VE-BASE	Flow Gateway Virtual Edition
LIC-SCFG-VE-10K	SteelCentral Flow Gateway Virtual Edition 10K FPM License
LIC-SCFG-VE-100K	SteelCentral Flow Gateway Virtual Edition 100K FPM License